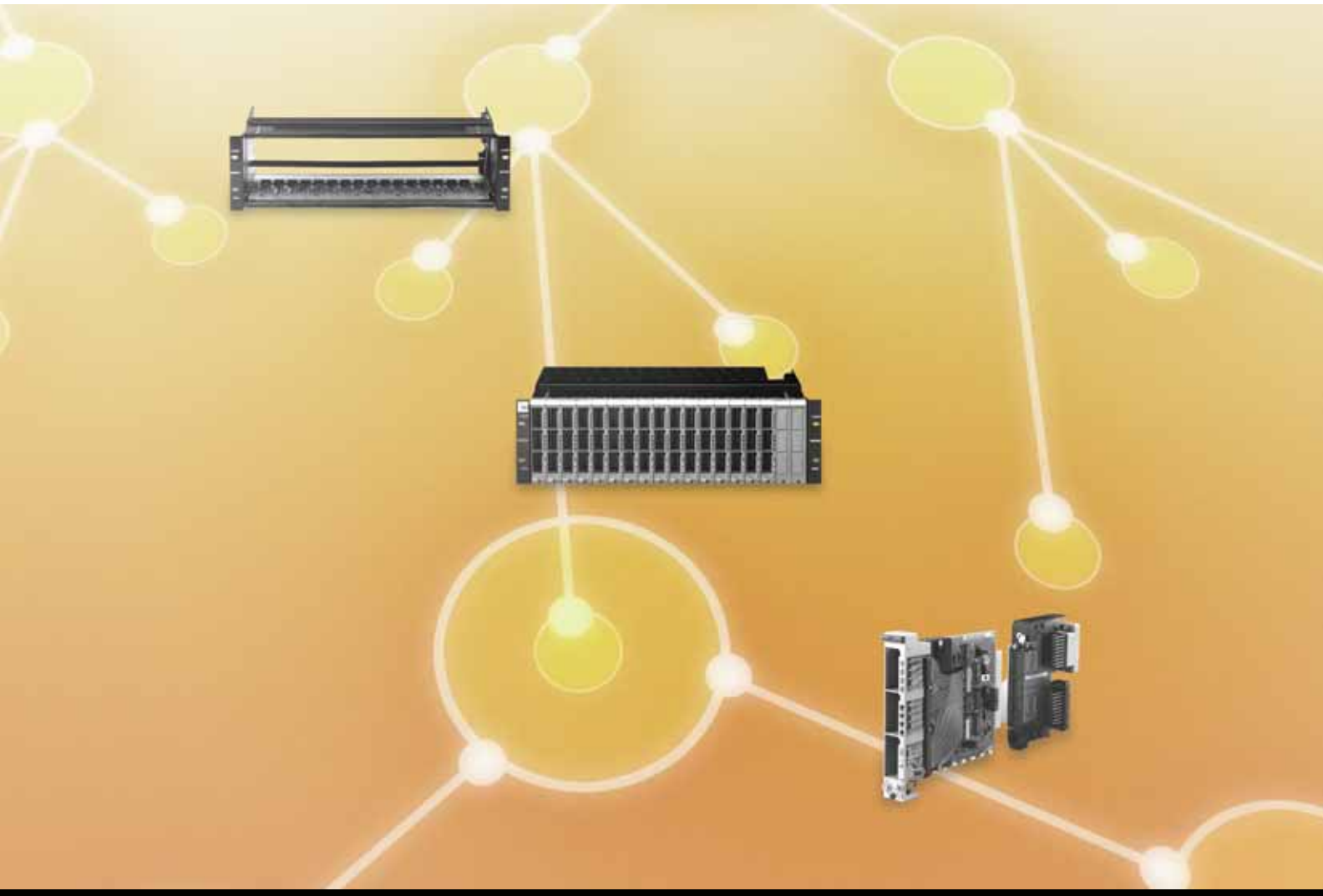

Data Management and Access Products

ADC®

Data Management and Access Products

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Data Management and Access Products
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Data Management and Access Products
Introduction

Uninterrupted data network communications depend upon your ability to independently and immediately restore function to a failed component or to substitute or reroute communication paths. ADC's PatchMate™ and PatchSwitch™ data management and access products provide a convenient, organized method of digital communications line monitoring and reconfiguration. Products have been designed to meet the needs of a wide variety of applications. The most commonly used products are described in this catalog.

Features:

Built-in circuit diagnostic aids
- Quick isolation of circuit problems
- Rapid restoration of critical circuit paths
- Routine "at a glance" visibility of basic network health and activity (without instruments)

Rugged, fail-safe design
- High quality and innovative design assures absolute integrity of circuit
- Lifetime warranty on all patch mechanisms and cords
- No sliding, hinged or rotating mechanical parts

Compact size and flexible configuration
- More features in less space compared to typical competitive methods
- Wide range of accessory modules and maximum customization

High Reliability and Quality

- Data management and access products are designed and manufactured to provide high reliability and quality.
- ADC is ISO 9000 certified
- Patented spring contact to spring contact patching connections give solid contact operation.
- Contacts are bifurcated and gold inlaid to prevent wear, oxidation or material breakdown.
- Contacts on both the patch modules and patch cords are fully recessed to prevent breakage, contamination or inadvertant shorting.
- Patch cords are keyed to prevent improper insertion and are fully strain relieved.
- All patch module mounting hardware is captive on the module itself, so there is no fumbling for dropped or lost parts.

Primary Use

- End user, government, private and international data communications networks for patching, testing, access and reconfiguration.
- Data networks with a revenue-related function or high strategic value
- Perform the same function on data communications circuits that DSX or bantam jackfields perform on T1 or analog telecommunications circuits.
- Indicate circuit health with alarms and LEDs

Data Management and Access
Components

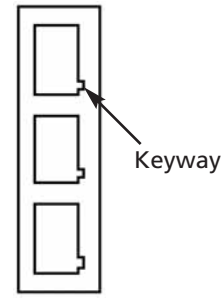
Assemblies

Prepackaged combinations of the various components that make up the full PatchMate or PatchSwitch patch panel. Most assemblies contain 16 digital patch modules in the leftmost 16 positions of an 18 position chassis. Each assembly comes with a blank designation labeling strip that is 18 modules wide, or the entire width of the chassis.

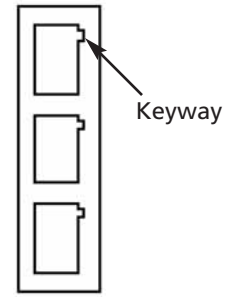
Patch Modules

Each standard module contains three front panel jacks for easy passive and/or intrusive access to the circuit and two rear connectors for attachment to data terminating and/or communication devices. Insertion of a patch cord into the monitor jack allows the circuit to be monitored without interruption.

Most modules have standard keying; however reverse keyed modules are available in the EIA-530 and EIA-422/V.11 (X.27) product lines. The difference between the two designs lies in the location of the patch cord key way. In standard versions (Key Type B), the key way is located in the upper right corner of the patch jack. Reverse keyed (Key Type A) modules have the key way located in the lower right. The different placement of the key ways makes it impossible to patch between the two types with standard patch cords, eliminating the potential for disruption of critical or incompatible circuits. When Key Type A modules are used, reverse keyed patch cords are required.



Key Type A



Key Type B

Breakout Modules

Used to alter or reconfigure the serial binary data interchange signal paths for the circuit leads between the DTE and DCE interface within the digital patch field. They also provide switches to open/close circuit path pin jacks on both sides of the interface for test/injection on up to 24 leads.

Interface Modules

Allow test equipment and/or spare terminal or communications equipment (e.g., spare modem or computer ports) to be easily accessed and terminated within the digital patch field.

Test Modules

Provide diagnostic equipment interface capabilities and status monitoring for circuit activity and alarm conditions. Allows external test equipment or other miscellaneous equipment to be terminated and accessed within the digital patch field.

Chassis

Chassis accommodate up to 18 modules of various types. Each chassis comes complete with two cable strain relief bars, designation cards and designation windows.

Patch Cords

Patch cords are used to perform the monitoring and patching functions on various assemblies and modules. In addition, special purpose patch cords are provided to perform various other functions and special interfacing as might be required by the user. Patch cords are available in standard and reverse key types and in a wide variety of lengths.

PatchMate™ Products
Introduction

For total control over the network, you need the ability to perform independent and immediate circuit restoration upon failure or reroute a communications path. PatchMate Digital Patching provides convenient, organized line monitoring, access, test and reconfiguration capability for multiconductor digital interfaces.

PatchMate™ Product Line

- Twenty-five leads are patched when using EIA-530, EIA-232/V.24, V.35 and EIA-422/V.11 (X.27)
- PatchMate systems provide physical, hard-contact access to any multiconductor data circuit for the analysis and restoral of circuit operation
- Capability to tailor alarm monitoring conditions instantly to changing needs without module removal
- PatchMate systems provide flexibility to add or interchange modules on a single line basis
- Design avoids the use of card edge connectors and movable mechanical parts
- Offers more features and benefits than competitive models
- Module mounting hardware is captive to prevent dropped or lost parts

Alarms and LEDS

- "At a glance" circuit diagnostics
- Circuit alarm status indicated locally by an amber LED on the chassis or module
- Up to eight status indicators and alarm circuitry per module
- Green and red LEDs indicate real time status of signal leads
- Instantly tailor alarm monitoring conditions to changing needs without module removal
- Alarming options controlled by a simple toggle switch located on the front of each module
- Choose "Alarm Off", "Audible and Visual Alarm", or "Visual Alarm Only"
- Alarming is on with either the absence or continued presence of an electrical signal
- Select alarm delay from 50 microseconds (µ) to 68 seconds
- Alarm reset by touching two contacts on the front of the module
- Most complete alarm and LED set available

Patch Cords

- Patented spring contact to spring contact provides the most reliable solid connection
- Contacts are gold inlaid and bifurcated to prevent wear, oxidation or material breakdown
- Contacts are fully recessed to prevent breakage or contamination
- Cords are keyed to prevent improper insertion and are fully strain relieved

Chassis

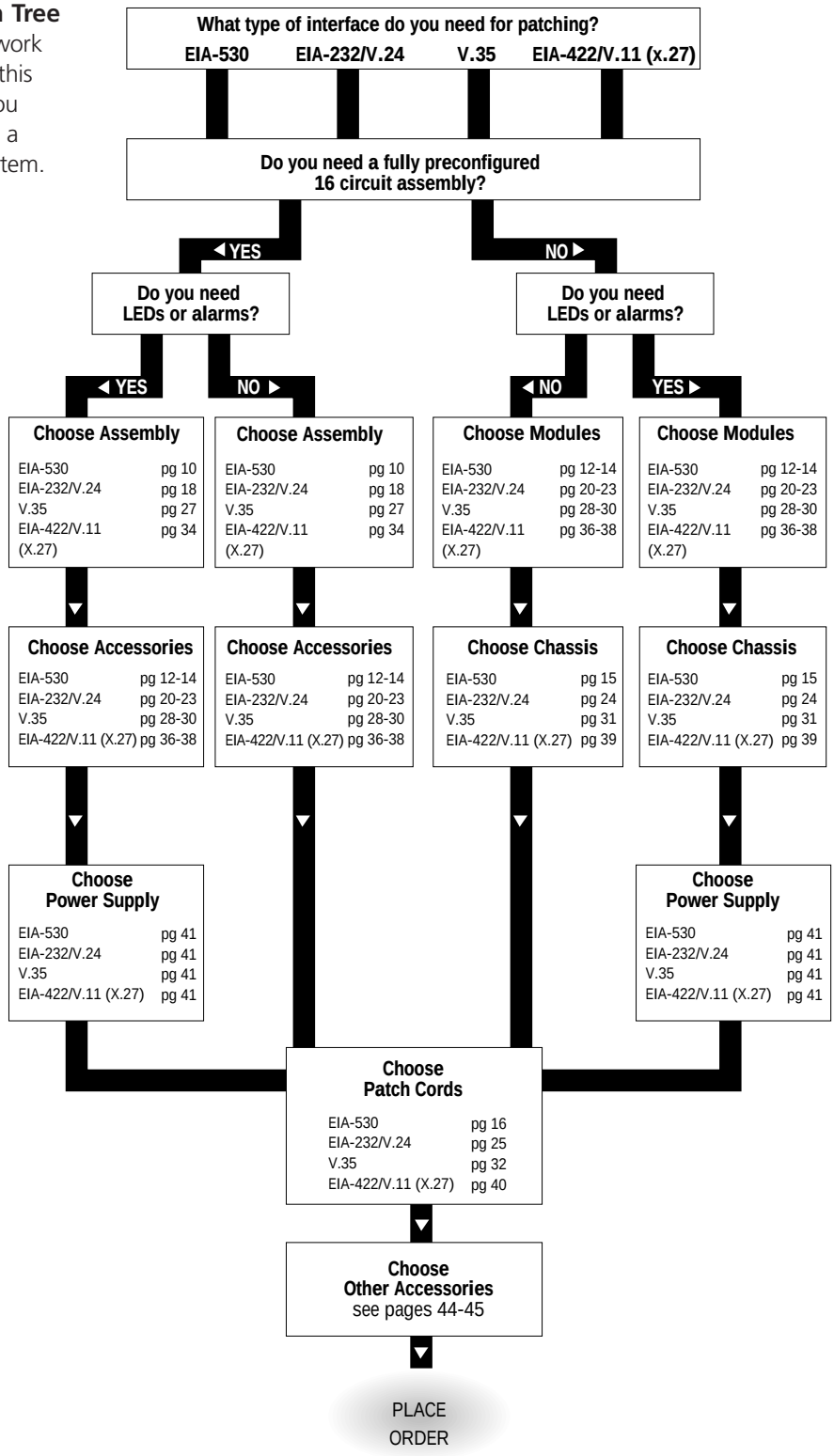
- Accommodate up to 18 modules of various types
- Cable support provided for easy removal of module for internal adjustments

Breakout Modules

- Dip switches on all 24 leads
- Pin jacks on both sides of the switches for test/injection
- Test voltage and LEDs for injection/test function

PatchMate™ Products
Introduction

PatchMate™ Decision Tree
If you need manual network control capabilities, use this decision tree to guide you through the selection of a complete PatchMate system.



PatchMate™ Products
Assemblies At A Glance

P= Plug/Male Connection
R= Receptacle/Female Connector
XX= Length of patch cord

Catalog Number	Page Number	Connector		Options		Components Included			
		Rear/Top (DTE)	Rear/Bottom (DCE)	LEDs	Alarms	Quantity/Type Patch Module	Quantity/Type Other Module	Blank Modules	Chassis
EIA-530									
PMS-614001	11	R (DB25)	P (DB25)	Yes	No	16 PMM-614001	1 PMM-636003	1	PMCH-1
PMS-614007	11	R (DB25)	P (DB25)	Yes	No	16 PMM-614001	None	2	PMCH-1
PMS-616004	11	R (DB25)	P (DB25)	No	No	16 PMM-614004	None	2	PMCH-2
PMS-616004RED		R (DB25)	P (DB25)	No	No	16 PMM-616004RED	None	2	PMCH-2
PMS-616005	11	R (DB25)	R (DB25)	No	No	16 PMM-614005	1 PMM-636003	1	PMCH-2
PMS-616005RED		R (DB25)	P (DB25)	No	No	16 PMM-616005RED	1 PMM-636003RED	1	PMCH-2

Catalog Number	Page Number	Connector		Options		Components Included			
		Rear/Top (DTE)	Rear/Bottom (DCE)	LEDs	Alarms	Quantity/Type Patch Module	Quantity/Type Other Module	Blank Modules	Chassis
EIA-232/V.24									
PMSLA-16	19	R (DB25)	R (DB25)	Yes	Yes	16 PMMLA-1	None	2	PMCH-1
PMSLA-16 (G)		R (DB25)	R (DB25)	Yes	Yes	16 PMMLA-1	None	2	PMCH-1
PMSLA-16 (R)	19	R (DB25)	R (DB25)	Yes	Yes	16 PMMLA-1	None	2	PMCH-1
PMSLA-16-MF	19	R (DB25)	P (DB25)	Yes	Yes	16 PMMLA-2	None	2	PMCH-1
PMSL-16	19	R (DB25)	R (DB25)	Yes	No	16 PMML-1	None	2	PMCH-1
PMSL-16-MF	19	R (DB25)	P (DB25)	Yes	No	16 PMML-2	None	2	PMCH-1
PMS-16	19	R (DB25)	R (DB25)	No	No	16 PMM-1	None	2	PMCH-2
PMS-16-MF		R (DB25)	P (DB25)	No	No	16 PMM-2	None	2	PMCH-2

Catalog Number	Page Number	Connector		Options		Components Included			
		Rear/Top (DTE)	Rear/Bottom (DCE)	LEDs	Alarms	Quantity/Type Patch Module	Quantity/Type Other Module	Blank Modules	Chassis
V.35									
PMSLA-16-V35FF	27	(R) V.35	(R) V.35	Yes	Yes	16 PMMLA-V35FF	None	2	PMCH-1
PMSLA-16-V35	27	(R) V.35	(P) V.35	Yes	Yes	16 PMMLA-V35	None	2	PMCH-1
PMS-16-V35FF	27	(R) V.35	(R) V.35	No	No	16 PMM-V35FF	None	2	PMCH-2
PMS-16-V35	27	(R) V.35	(P) V.35	No	No	16 PMM-V35	None	2	PMCH-2

Catalog Number	Page Number	Connector		Options		Components Included			
		Rear/Top (DTE)	Rear/Bottom (DCE)	LEDs	Alarms	Quantity/Type Patch Module	Quantity/Type Other Module	Blank Modules	Chassis
EIA-422/V.11 (X.27)									
PMS-B-16-MF	35	(P) DB25	(R) DB25	No	No	16 PMM-B-2	None	2	PMCH-2N
PMS-B-16-MF (R)		(P) DB25	(R) DB25	No	No	16 PMM-B-2 (R)	None	2	PMCH-2N
PMS-616002	35	(P) DB25	(R) DB25	No	No	16 PMM-616002	None	2	PMCH-2N

LED breakout and test modules require power supply DMPS-11 or DMPS-11E when used in unpowered chassis PMCH-2 or PMCH-2N.

Required Components		Optical Components		
Power Supply	Patch Cords	Compatible Interface Modules	Compatible Test Modules	Compatible Breakout Modules
DMPS-5A	PMP-6XX007	None	PMM-636003 included	PMBP-530-1or PMBP-530-2
DMPS-5A	PMP-6XX007	None	PMM-636003	PMBP-530-1or PMBP-530-2
N/A	PMP-6XX007	None	PMM-636003	PMBP-530-1or PMBP-530-2
N/A	PMP-6XX007	None	PMM-636003RED	PMBP-530-1or PMBP-530-2
N/A	PMP-6XX007	None	PMM-636003 included	PMBP-530-1or PMBP-530-2
N/A	PMP-6XX007	None	PMM-636003RED	PMBP-530-1or PMBP-530-2

Required Components		Optical Components		
Power Supply	Patch Cords	Compatible Interface Modules	Compatible Test Modules	Compatible Breakout Modules
DMPS-5, 5E or 548	PMPC-X	PIMMLA-1	PIMMLA-2	PMBP-1or PMBP-2
DMPS-5, 5E or 548	PMPC-X	PIMMLA-1	PIMMLA-2	PMBP-1or PMBP-2
DMPS-5, 5E or 548	PMPC-X	PIMMLA-1	PIMMLA-2	PMBP-1or PMBP-2
DMPS-5, 5E or 548	PMPC-X	PIMMLA-1	PIMMLA-2	PMBP-1or PMBP-2
DMPS-5, 5E or 548	PMPC-X	PIMMLA-1	PIMMLA-2	PMBP-1or PMBP-2
DMPS-5, 5E or 548	PMPC-X	PIMMLA-1	PIMMLA-2	PMBP-1or PMBP-2
N/A	PMPC-X	PMME-1	PMME-2	PMBP-1or PMBP-2
N/A	PMPC-X	PMME-1	PMME-2	PMBP-1or PMBP-2

Required Components		Optical Components		
Power Supply	Patch Cords	Compatible Interface Modules	Compatible Test Modules	Compatible Breakout Modules
DMPS-5, 5E or 548	PMPC-BV-X	PIMMLA-V35	None	None
DMPS-5, 5E or 548	PMPC-BV-X	PIMMLA-V35	None	None
N/A	PMPC-BV-X	PMME-V35	None	None
N/A	PMPC-BV-X	PMME-V35	None	None

Required Components		Optical Components		
Power Supply	Patch Cords	Compatible Interface Modules	Compatible Test Modules	Compatible Breakout Modules
N/A	PMPC-B-X	None	PIMML-B-2	PMBP-1
N/A	PMPC-B-X	None	PIMML-B-2	PMBP-1
N/A	PMP-6XX002	None	PMM-636003	PMBP-1

PatchMate™ Products
Modules At A Glance

P= Plug/Male Connection
R= Receptacle/Female Connector
XX= Length of patch cord
"Top" connector is on front of test module

Catalog Number	Page Number	Module Type	Loaded Chassis	Connector	
				Rear/Top (DTE)	Rear/Bottom (DCE)
EIA-530					
PMM-614001	13	Patch	PMS-614001/7	R (DB25)	P (DB25)
PMM-616001		Patch	None	R (DB25)	P (DB25)
PMM-616004	13	Patch	PMS-616004	R (DB25)	P (DB25)
PMM-616004RED	13	Patch	PMS-616004RED	R (DB25)	P (DB25)
PMM-616005	13	Patch	None	R (DB25)	R (DB25)
PMM-636001		Test	PMS-616005RED	R (DB25)	R (DB25)
PMM-636002	13	Test	None	R (DB25)	R (DB25)
PMM-636003	14	Test	PMS-614001/6005	R (DB25)	
PMM-636003RED	14	Test	PMS-616005RED	R (DB25)	
PMME-5		Interface	None	R (DB25)	R (DB25)
PMPB-530-2			None		
EIA-232/V.24					
PMMLA-1	21	Patch	PMSLA-16	R (DB25)	R (DB25)
PMMLA-2	21	Patch	PMSLA-16-MF	R (DB25)	P (DB25)
PMML-1	21	Patch	PMSL-16	R (DB25)	R (DB25)
PMML-2	21	Patch	PMSL-16-MF	R (DB25)	P (DB25)
PMM-1	21	Patch	PMS-16	R (DB25)	R (DB25)
PMM-2	21	Patch	PMS-16-MF	R (DB25)	P (DB25)
PMM-2 (R)	21	Patch-Red	PMS-16-MF	R (DB25)	P (DB25)
PIMMLA-1	21	Interface	None	R (DB25)	R (DB25)
PMME-1	21	Interface	None	R (DB25)	R (DB25)
PIMMLA-2	21	Test	None	P (DB25)	
PMME-2	21	Test	None	R (DB25)	
PMPB-2	21	Breakout	None		
PMBP-1		Breakout	None		
V.35					
PMMLA-V35FF	29	Patch	PMSLA-16-V35FF	R (V.35)	R (V.35)
PMMLA-V35	29	Patch	PMSLA-16-V35	R (V.35)	P (V.35)
PMM-V35FF	29	Patch	PMS-16-V35FF	R (V.35)	R (V.35)
PMM-V35	29	Patch	PMS-16-V35	R (V.35)	P (V.35)
PIMMLA-V35	30	Interface	None	R (V.35)	R (V.35)
PMME-V35	30	Interface	None	R (V.35)	R (V.35)
EIA-422/V.11 (X.27)					
PMME-B-1	37	Interface	None	R (DB25)	R (DB25)
PMML-B-2	37	Patch	PMSL-B-17	P (DB25)	R (DB25)
PMM-B-2	37	Patch	PMS-B-17	P (DB25)	R (DB25)
PMM-B-2 (R)		Patch	PMS-B-16-MF (R)	R (DB25)	P (DB25)
PMM-616002	37	Patch	PMS-616002	P (DB25)	R (DB25)
PIMML-B-1	38	Interface	None	R (DB25)	R (DB25)
PIMML-B-2	38	Test	None	R (DB25)	R (DB25)

PatchMate™ Products
Modules At A Glance

*LED breakout and test modules require power supply DMPS-11 or DMPS-11E when used in the unpowered chassis PMCH-2 and PMCH-2N

Catalog Number	LEDs	Alarms	Chassis	Connector	
				Patch Cords	Other
EIA-530					
PMM-614001	Yes	No	PMCH-1	PMP-6XX007	None
PMM-616001	No	No	PMCH-1 or 2	PMP-6XX007	None
PMM-616004	No	No	PMCH-1 or 2	PMP-6XX007	None
PMM-616004RED	No	No	PMCH-1 or 2	PMP-6XX007	None
PMM-616005	No	No	PMCH-1 or 2	PMP-6XX007	None
PMM-636001	No	No	PMCH-1 or 2	PMP-6XX007	None
PMM-636002	No	No	PMCH-1 or 2	PMP-6XX007	None
PMM-636003	No	No	PMCH-1 or 2	PMP-6XX007	None
PMM-636003RED	No	No	PMCH-1 or 2	PMP-6XX007	None
PMME-5	No	No	PMCH-1 or 2	PMP-6XX007	None
PMPB-530-2	Yes	No	PMCH-1 or 2*	PMP-6XX007	None
PMPB-530-1	No	No	PMCH-1 or 2	PMP-6XX007	None
EIA-232/V.24					
PMMLA-1	Yes	Yes	PMCH-1	PMPC-X	None
PMMLA-2	Yes	Yes	PMCH-1	PMPC-X	None
PMML-1	Yes	No	PMCH-1	PMPC-X	None
PMML-2	Yes	No	PMCH-1	PMPC-X	None
PMM-1	No	No	PMCH-1 or 2	PMPC-X	None
PMM-2	No	No	PMCH-1 or 2	PMPC-X	None
PMM-2 (R)	No	No	PMCH-1 or 2	PMPC-X	None
PIMMLA-1	Yes	Yes	PMCH-1	PMPC-X	None
PMME-1	No	No	PMCH-1 or 2	PMPC-X	None
PIMMLA-2	Yes	Yes	PMCH-1 or 2*	PMPC-X	None
PMME-2	No	No	PMCH-1 or 2	PMPC-X	None
PMPB-2	Yes	No	PMCH-1 or 2*	PMPC-X	None
PMBP-1	No	No	PMCH-1 or 2	PMPC-X	None
V.35					
PMMLA-V35FF	Yes	Yes	PMCH-1	PMPC-BV-X	BKT-V35
PMMLA-V35	Yes	Yes	PMCH-1	PMPC-BV-X	BKT-V35
PMM-V35FF	No	No	PMCH-1 or 2	PMPC-BV-X	BKT-V35
PMM-V35	No	No	PMCH-1 or 2	PMPC-BV-X	BKT-V35
PIMMLA-V35	Yes	Yes	PMCH-1	PMPC-BV-X	BKT-V35
PMME-V35	No	No	PMCH-1 or 2	PMPC-BV-X	BKT-V35
EIA-422/V.11 (X.27)					
PMME-B-1	No	No	PMCH-2N or 6	PMPC-B-X	None
PMML-B-2	Yes	No	PMCH-6	PMPC-B-X	None
PMM-B-2	No	No	PMCH-2N or 6	PMPC-B-X	None
PMM-B-2 (R)	No	No	PMCH-2N or 6	PMPC-B-X	None
PMM-616002	No	No	PMCH-2N or 6	PMP-6XX002	None
PIMML-B-2	Yes	No	PMCH-2N* or 6	PMPC-B-X	None

Note: PMCH-1 Chassis requires power supply

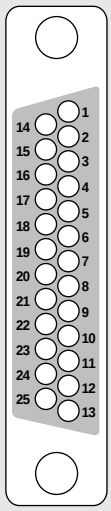
EIA-530 PatchMate™

The EIA-530 interface has become an industry standard for many reasons. Users and vendors of EIA-232, V.35, EIA-422 and EIA-449 data communications equipment are migrating to EIA-530 to take advantage of the higher data rate and the compact mechanical interface. A unique patch port pin configuration is responsible for ADC's PatchMate EIA-530's superior electrical performance characteristics.

EIA-530 Summary

- Patches 25 leads
- Data rates of DC to 5 Mbps (LED modules) and to 20 Mbps (non-LED modules)
- DB25 connector interface
- Key Type A
- Patch cord (PMP-6XX007) available in 02-10 foot lengths
- Balanced or unbalanced operation available at user discretion
- Modules and patch cords are grey

EIA -530 Pin Chart



Pin	Abbreviation	Description	LEDs
1	Shield	Shield	
2	TD (A)	Transmitted Data	Green/Red
3	RD (A)	Received Data	Green/Red
4	RS (A)	Request to Send	Green/Red
5	CS (A)	Clear to Send	Green/Red
6	RR (A)	DCE Ready	Green/Red
7	SG	Signal Ground	
8	DM (A)	Received Line Signal Detector	Green/Red
9	RT (B)	Receive Signal Element Timing	Green/Red
10	DM (B)	Received Line Signal Detector	Green/Red
11	TT (B)	Transmit Signal Element Timing (DTE)	Green/Red
12	TT (B)	Transmit Signal Element Timing (DCE)	Green/Red
13	CS (B)	Clear to Send	Green/Red
14	TD (B)	Transmitted Data	Green/Red
15	TT (A)	Transmit Signal Element Timing (DCE)	Green/Red
16	RD (B)	Received Data	Green/Red
17	RT (A)	Receive Signal Element Timing	Green/Red
18	LL	Local Loopback	
19	RS (B)	Request to Send	Green/Red
20	TR (A)	DTE Ready	Green/Red
21	RL	Remote Loopback	
22	RR (B)	DCE Ready	Green/Red
23	TR (B)	DTE Ready	Green/Red
24	TT (A)	Transmit Signal Element Timing (DTE)	Green/Red
25	TM	Test Mode	

EIA-530 PatchMate™
Assemblies

- Dimensions (H x W x D): 5.25 x 19 x 9 inches (13.3 x 48.26 x 22.9 cm)
- Weight: 13 lbs (6 kg)
- Patches 25 leads
- Data rate of DC to 5 Mbps (LED modules) and 20 Mbps (non-LED modules)
- DB25 connector interface
- Key Type A
- Patch cord (PMP-6XX007) available in 02-10 foot lengths
- Balanced or unbalanced operation available at user discretion
- Modules and patch cords are grey

Assemblies with LEDs

- Front panel mounted tri-color LEDs provide passive monitoring of the circuit leads terminated to the patch module (see LED chart)
- Green LEDs represent an asserted signal on the lead
- Red LEDs represent a non-asserted signal on the lead
- Clear LEDs represent a disconnected/ inadequate signal on the lead

EIA -530 LED Chart

Pin A	Pin B	Abbreviation	Description	LEDs
2	14	TD	Transmitted Data	Green/Red
3	16	RD	Received Data	Green/Red
4	19	RS	Request to Send	Green/Red
5	13	CS	Clear to Send	Green/Red
6	22	RR	DCE Ready	Green/Red
8	10	DM	Received Line Signal Detector	Green/Red
15	12	TT	Transmit Signal Element Timing (DCE)	Green/Red
17	9	RT	Receive Signal Element Timing	Green/Red
20	23	TR	DTE Ready	Green/Red
24	11	TT	Transmit Signal Element Timing (DTE)	Green/Red

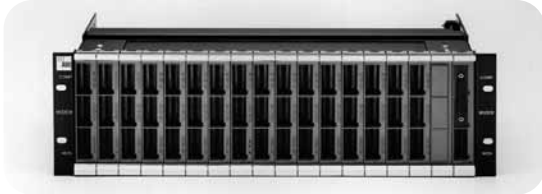
Catalog Number	Required Power Supply	Connector		Options		Components Included			
		Rear/Top (DTE)	Rear/Bottom (DCE)	LEDs	Alarms	Quantity/Type Patch Module	Quantity/Type Other Module	Blank Modules	Chassis
EIA-530									
PMS-614001	DMPS-5A	R (DB25)	P (DB25)	Yes	No	16 PMM-614001	1 PMM-636003	1	PMCH-1
PMS-614007	DMPS-5A	R (DB25)	P (DB25)	Yes	No	16 PMM-614001	None	2	PMCH-1
PMS-616004	None	R (DB25)	P (DB25)	No	No	16 PMM-614004	None	2	PMCH-2
PMS-616004RED	None	R (DB25)	P (DB25)	No	No	16 PMM-614004RED	None	2	PMCH-2
PMS-616005	None	R (DB25)	R (DB25)	No	No	16 PMM-614005	1 PMM-636003	1	PMCH-2
PMS-616005RED	None	R (DB25)	R (DB25)	No	No	16 PMM-616005RED	1 PMM-636-001	1	PMCH-2

P= Plug/Male Connector
R= Receptacle/Female Connector

EIA-530 PatchMate™
Assemblies

Patching with LEDs and Test Module

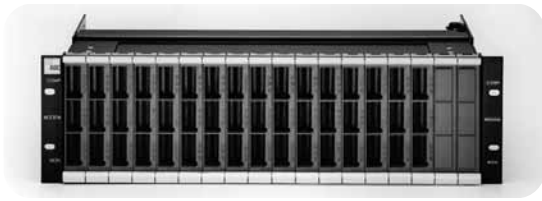
- Provides 16 lines of LED patching with PMM-614001 modules
- A non-LED test module (PMM-636003) is provided in the 18th slot of the chassis
- Power supply DMPS-5A is required



PMS-614001 (R/P)

Patching with LEDs

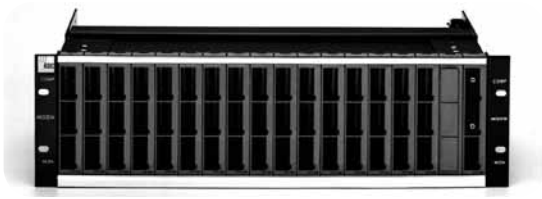
- Provides 16 lines of LED patching with PMM-614001 modules
- Power supply DMPS-5A is required



PMS-614007 (R/P)

Patching without LEDs and with Test Module

- Provides 16 lines of non-LED patching with PMM-616004 modules
- A non-LED test module (PMM-636003) is provided in the 18th slot of the chassis
- No power supply is required
- Offered in Red (PMS-616005RED)



PMS-616005 (R/R)

Patching without LEDs

- Provides 16 lines of non-LED patching with PMM-616004 modules
- No power supply is required
- Also available in Red (PMS-616004RED)

PMS-616004 (R/P)

P= Plug/Male Connector
R= Receptacle/Female Connector

EIA-530 PatchMate™
Modules

- Dimensions (H x W x D): 5.25 x 0.95 x 5.5 inches (13.3 x 2.41 x 13.97 cm)
- Weight: 8 oz. (224 g)
- Provides patch cord access to terminated EIA-530 data circuits
- Patches 25 leads
- Data rate of DC to 5 Mbps (LED modules) to 20 Mbps (non-LED modules)
- DB25 connector interface
- Key Type A
- Patch cord (PMP-6XX007) available in 2-10 foot lengths
- Balanced or unbalanced operation available at user discretion
- Modules and patch cords are grey

Modules with LEDs
- Front panel mounted tri-color LEDs provide passive monitoring of the circuit leads terminated to the patch module (see LED chart)
- Green LEDs represent an asserted signal on the lead
- Red LEDs represent a non-asserted signal on the lead
- Clear LEDs represent a disconnected/inadequate signal on the lead

EIA -530 LED Chart

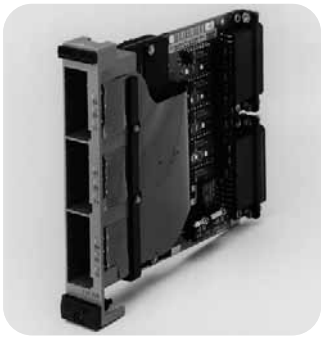
Pin A	Pin B	Abbreviation	Description	LEDs
2	14	TD	Transmitted Data	Green/Red
3	16	RD	Received Data	Green/Red
4	19	RS	Request to Send	Green/Red
5	13	CS	Clear to Send	Green/Red
6	22	RR	DCE Ready	Green/Red
8	10	DM	Received Line Signal Detector	Green/Red
15	12	TT	Transmit Signal Element Timing (DCE)	Green/Red
17	9	RT	Receive Signal Element Timing	Green/Red
20	23	TR	DTE Ready	Green/Red
24	11	TT	Transmit Signal Element Timing (DTE)	Green/Red

Catalog Number	Module Type	Connector		Options		Recommended Products	
		Rear/Top (DTE)	Rear/Bottom (DCE)	LEDs	Alarms	Chassis	Patch Cords
EIA-530							
PMM-614001	Patch	R (DB25)	P (DB25)	•		PMCH-1	PMP-6XX007
PMM-616001	Patch	R (DB25)	R (DB25)	•	•	PMCH-1 or 2	PMP-6XX007
PMM-616001(Black)	Patch	R (DB25)	P (DB25)			PMCH-1 or 2	PMP-6XX007
PMM-616004	Patch	R (DB25)	R (DB25)			PMCH-1 or 2	PMP-6XX007
PMM-616004RED	Patch	R (DB25)	R (DB25)			PMCH-1 or 2	PMP-6XX007
PMM-616005	Patch	R (DB25)	R (DB25)			PMCH-1 or 2	PMP-6XX007
PMM-636001	Patch	R (DB25)	R (DB25)			PMCH-1 or 2	PMP-6XX007
PMM-636002	Patch	R (DB25)	R (DB25)			PMCH-1 or 2	PMP-6XX007
PMM-636003	Test	R (DB25)				PMCH-1 or 2	PMP-6XX007
PMM-636003RED	Test	R (DB25)				PMCH-1 or 2	PMP-6XX007
PMME-5	Patch	R (DB25)	R (DB25)			PMCH-1 or 2	PMP-6XX007
PMBP-530-2	Interface	R(DB25)				PMCH-1 or 2	PMP-6XX001
PMBP-530-1				•		PMCH-1 or 2	PMP-6XX007

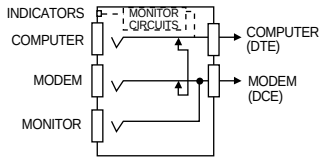
P = Plug/Male Connector
R = Receptacle/Female Connector
XX = Length of patch cord
*External power supply DMPS-11 or DMPS-11E is required when used in unpowered chassis PMCH-2

EIA-530 PatchMate™
Modules

Patch Module with LEDs



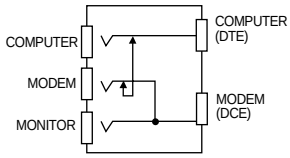
PMM-614001 (R/P)



- Contains three front panel ports for easy passive or intrusive easy access to the data circuit
- Provided with Berg mini-jumpers to select balanced or unbalanced operation for each monitored "A" input lead
- Use with chassis PMCH-1

Patch Module without LEDs

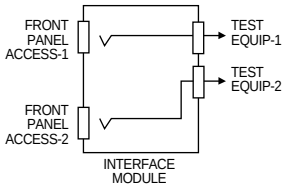
PMM-616004 (P/R)
PMM-616005 (R/R)
PMM-616004RED
PMM-616001



- Contains three front panel ports for easy passive or intrusive access to the data circuit
- Rear/bottom DCE plugs available
- Use with chassis PMCH-1 or PMCH-2
- No power supply is required

Test Module without LEDs

PMM-636003 (R)
PMM-636003RED
PMM-636001 (R)

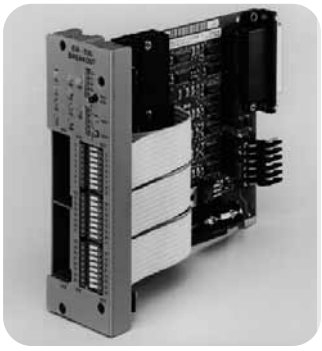


- Provides the interface terminations between the appropriate test equipment and the selected system patch module
- Contains front and rear connectors for attachment of diagnostic equipment to patch jack
- Use with chassis PMCH-1 or PMCH-2
- No power supply is required

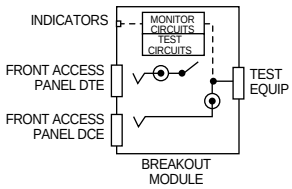
P= Plug/Male Connector
R= Receptacle/Female Connector

EIA-530 PatchMate™
Modules

Breakout Module with LEDs and without Alarms



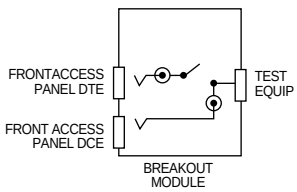
PMBP-530-2 (R)



- Available for connecting, disconnecting, cross-connecting, accessing, patching, monitoring or signal insertion on individual circuits within the EIA-530 multicircuit interface
- Contains ten tri-state LED indicators for signal interface monitoring
- Monitoring of EIA-530 balanced and unbalanced interfaces is user selectable
- Provides user option for monitoring of the transmit signal element timing (TT) for either DCE or DTE sourced
- Pulse trap circuit and a test LED can be jumpered to any lead via the pin jack
- Provides balanced and unbalanced test voltages for signal injection
- 24 break-off switches
- 48 pin jacks (24 each for DTE/DCE)
- A pin jack patch cord kit is included
- Provides one patch jack for DTE connection and one for DCE connection
- Uses two slots in chassis PMCH-1 or PMCH-2
- External power supply DMPS-11 or DMPS-11E is required when used with unpowered PMCH-2 chassis

Breakout Module without LEDs

PMBP-530-1 (R)



- Available for connecting, disconnecting, cross-connecting, accessing, patching, monitoring or signal insertion on individual circuits within the EIA-530 multicircuit interface
- Balanced and unbalanced operation
- 24 break-off switches
- 48 pin jacks (24 each for DTE/DCE)
- A pin jack patch cord kit is provided
- Provides one patch jack for DTE connection and one for DCE connection
- Uses two slots in chassis PMCH-1 or PMCH-2
- No power supply is required

P= Plug/Male Connector
R= Receptacle/Female Connector

EIA-530 PatchMate™
Chassis

Powered Chassis

For PatchMate Modules Requiring Power, LEDs and Alarming

- Designed to provide power to modules with LEDs and alarms
- May also be used with unpowered modules
- Mounts up to 18 modules
- Chassis PMCH-1 is labeled to correspond with all EIA-530, EIA-232 and V.35 PatchMate Modules
- Requires power supply DMPS-5A

PMCH-1

Unpowered Chassis

For Unpowered PatchMate Modules

- Designed to be used with modules that do not require power
- Mounts up to 18 modules
- Chassis PMCH-2 is labeled to correspond with all EIA-530, EIA-232 and V.35 PatchMate Modules
- LED breakout and test modules require the use of power supply DMPS-11 or DMPS-11E when used in chassis PMCH-2

PMCH-2

Module Catalog Number	PMCH-1 (Powered)	PMCH-2 (Unpowered)
EIA-530		
PMBP-530-2	R	C
PMBP-530-1	C	R
PMM-614001	R	N
PMM-616001	C	R
PMM-616004	C	R
PMM-616004RED	C	R
PMM-616005	C	R
PMM-616005RED	C	R
PMM-636003	C	R
PMME-5	N	R

R = Recommended C = Compatible N = Not Compatible

EIA-530 PatchMate™
Patch Cords

P= Plug/Male Connector
R= Receptacle/Female Connector

Patch Cords

- Key Type A
- Plug and cord are grey
- Balanced

Catalog Number	Cord Type	Length (in feet)	Balanced
PMP-602007	EIA-530 PatchMate	02	Yes
PMP-602900	EIA-530 PatchMate	02	Yes
PMP-603007	EIA-530 PatchMate	03	Yes
PMP-604007	EIA-530 PatchMate	04	Yes
PMP-606007	EIA-530 PatchMate	06	Yes
PMP-610007	EIA-530 PatchMate	10	Yes
PMP-616007	EIA-530 PatchMate	16	Yes
PMP-61R507	EIA-530 PatchMate	1.5	Yes
PMP-602005	EIA-530 PatchMate (null modem)	02	Yes
PMP-604010	EIA-530 PatchMate (null modem)	04	Yes
PMP-610006	EIA-530 PatchMate (null modem)	10	Yes

- Key Type B
- Balanced

Catalog Number	Cord Type	Length (in feet)	Color
PMP-602007RED	EIA-530 PatchMate	02	Red
PMP-604007RED	EIA-530 PatchMate	04	Red
PMP-606007RED	EIA-530 PatchMate	06	Red
PMP-608007RED	EIA-530 PatchMate	08	Red
PMP-610007RED	EIA-530 PatchMate	10	Red
PMPC-5B-10	EIA-530 PatchMate	10	Grey
PMPC-5B-2	EIA-530 PatchMate	02	Grey
PMPC-5B-3	EIA-530 PatchMate	03	Grey
PMPC-5B-4	EIA-530 PatchMate	04	Grey
PMPC-5B-8	EIA-530 PatchMate	08	Grey

Conversion Cords

- Converts EIA-530 PatchMate Key Type A connector to an EIA-530 Key Type B DB25 plug or receptacle connector.

Catalog Number	Cord Type	Length (in feet)
PMP-606009	Conversion (P)	06
PMP-606009RED	Conversion (P)	06
PMP-610009	Conversion (P)	10
PMP-606010	Conversion (R)	06
PMP-610010	Conversion (R)	10
PMP-602009	Conversion (P)	02
PMP-603009	Conversion (P)	03
PMP-603010	Conversion (R)	03
PMP-604009	Conversion (P)	04
PMP-604010	Conversion (R)	04
PMP-608009	Conversion (P)	08
PMP-608010	Conversion (R)	08

- Converts EIA-530 PatchMate Key Type A plug to a PatchMate EIA-232 Key Type B plug.

Catalog Number	Cord Type	Length (in feet)
PMP-603008	Conversion	03
PMP-604008	Conversion	04
PMP-606008	Conversion	06
PMP-608008	Conversion	08
PMP-610008	Conversion	10

- Looping cord Key Type B

Catalog Number	Cord Type	Length (in feet)
PMP-603006	Looping	03
PMP-610006	Looping	10

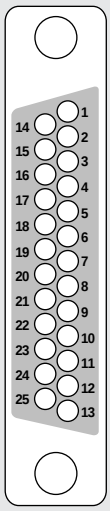
EIA-232/V.24 PatchMate™

EIA-232/V.24 has been a long standing electrical and mechanical data communication interface standard. EIA-232/V.24 defines the narrowband, serial binary data communications channel used between leased or dial-up modems, multiplexers or other communications devices for data transport and data computing or terminal equipment. ADC's EIA-232/V.24 PatchMate products are designed and tested to fully support all 25 unbalanced electrical signals for data, timing and control, that operate at speeds up to 19.2 Kbps.

EIA-232/V.24 Summary

- Patches 25 leads
- Data rate of DC up to 19.2 Kbps
- DB25 connector interface
- Key Type B
- Unbalanced patch cord (PMPC-X) available in 2-10 foot lengths
- Modules and patch cords are black

EIA-232/V.24 Pin Chart



Pin	Abbreviation	Description	LEDs
1	FG	Frame Ground	
2	TD	Transmit Data	Green
3	RD	Receive Data	Green
4	RS	Request To Send	Red
5	CS	Clear To Send	Red
6	DSR	Data Set Ready	Red
7	SG	Signal Ground	
8	DCD	Data Carrier Detect	Green
9		Positive DC Test Voltage	
10		Negative DC Test Voltage	
11		Unassigned	
12	SCD	Secondary Received Line Detector	
13	SCS	Secondary Clear To Send	
14	STD	Secondary Transmitted Data	
15	TC	Transmitter Clock	
16	SRD	Secondary Receive Data	
17	RC	Receive Clock	
18	LL	Local Loopback	
19	SRS	Secondary Request To Send	
20	DTR	Data Terminal Ready	Red
21	SQ	Signal Quality Detect	Green
22	RI	Ring Indicator	
23	CH	Data Signal Rate Selector	
24	ETC	External Transmitter Clock	
25	TM	Test Mode	

EIA-232/V.24 PatchMate™
Assemblies

- Dimensions (H x W x D): 5.25 x 19 x 9 inches (13.3 x 48.26 x 22.9 cm)
- Weight: 13 lbs (6 kg)
- Assemblies with LEDs have 8 indicators on each patching module
- Assemblies with alarms have an additional amber alarm LED indicator
- Patches 25 leads
- Data rate of DC up to 19.2 Kbps
- DB25 connector interface
- Key Type B
- Unbalanced patch cord (PMPC-X) available in 2-10 foot lengths
- Modules and patch cords are black

EIA-232/V.24 LED Chart

Pin A	Abbreviation	LEDs
2	TD	Green
3	RD	Green
4	RS	Red
5	CS	Red
6	DSR	Red
8	DCD	Green
20	DTR	Red
21	SQ	Green

Catalog Number	Connector		Options		Components Included			Required Power Supply
	Rear/Top (DTE)	Rear/Bottom (DCE)	LEDs	Alarms	QTY/Type Patch Module	Blank Modules	Chassis	
EIA-232/V.24								
PMSLA-16	(R) DB25	(R) DB25	•	•	16 PMMLA-1	2	PMCH-1	
PMSLA-16-MF	(R) DB25	(P) DB25	•	•	16 PMMLA-2	2	PMCH-1	
PMSLA-16(R)	(R) DB25	(R) DB25	•	•	16 PMMLA-1	2	PMCH-1	DMPS-5
PMSL-16	(R) DB25	(R) DB25	•		16 PMML-1	2	PMCH-1	5E, or 548
PMSL-16-MF	(R) DB25	(P) DB25	•		16 PMML-2	2	PMCH-1	None
PMS-16	(R) DB25	(R) DB25			16 PMM-1	2	PMCH-2	None
PMS-16-MF	(R) DB25	(P) DB25			16 PMM-2	2	PMCH-2	

P = Plug/Male Connector
R = Receptacle/Female Connector

EIA-232/V.24 PatchMate™
Assemblies

Patching with LEDs and Alarms

- Provides 16 lines of LED and alarm patching with PMMLA-1 (R/R) or PMMLA-2 (P/R) modules
- Each module has a selectable visual and audible alarm that can be chosen to indicate the absence or continued presence of any of the monitored signals
- The user can disable the alarm completely, have just an LED alarm, or have an alarm with the LED and audible buzzer
- The alarm is set if the signal has been off/on for a period of 50 µ seconds to 68 seconds
- Alarm delay is chosen on front panel for each module in eight discrete steps
- The user can reset the alarm by touching two contacts on the front of the module
- Power supply DMPS-5, DMPS-5E, or DMPS-548 is required

PMSLA-16 (R/R)
PMSLA-16-MF (P/R)
PMSLA-16 (G)/(R)
PMSLA-16(G)/(R)

Patching with LEDs and without Alarms

- Provides 16 lines of LED patching with PMML-1 (R/R) or PMML-2 (P/R) modules
- Power supply DMPS-5, DMPS-5E, or DMPS-548 is required

PMSL-16 (R/R)
PMSL-16-MF (P/R)

Patching without LEDs or Alarms

- Provides 16 lines of non-LED and non-alarm patching with PMM-1 (R/R) or PMM-2 (P/P) modules
- No power supply is required

PMS-16 (R/R)
PMS-16-MF (P/R)

G= Grey Colored Modules
P= Plug/Male Connector
R= Receptacle/Female Connector

EIA-232/V.24 PatchMate™
Modules

- Dimensions (H x W x D): 5.25 x 19 x 9 inches (13.3 x 48.26 x 22.9 cm)
- Weight: 13 lbs (6 kg)
- Assemblies with LEDs have 8 indicators on each patching module
- Assemblies with alarms have an additional amber alarm LED indicator
- Patches 25 leads
- Data rate of DC up to 19.2 Kbps
- DB25 connector interface
- Key Type B
- Unbalanced patch cord (PMPC-X) available in 2-10 foot lengths
- Modules and patch cords are black

EIA-232/V.24 LED Chart

Pin A	Abbreviation	LEDs
2	TD	Green
3	RD	Green
4	RS	Red
5	CS	Red
6	DSR	Red
8	DCD	Green
20	DTR	Red
21	SQ	Green

Catalog Number	Module Type	Connector		Options		Recommended Products	
		Rear/Top (DTE)	Rear/Bottom (DCE)	LEDs	Alarms	Chassis	Patch Cords
EIA-232/V.24							
PMMLA-1	Patch	(R) DB25	(R) DB25	•	•	PMCH-1	PMPC-X
PMMLA-2	Patch	(R) DB25	(P) DB25	•	•	PMCH-1	PMPC-X
PMML-1	Patch	(R) DB25	(R) DB25	•		PMCH-1	PMPC-X
PMML-2	Patch	(R) DB25	(P) DB25	•		PMCH-1	PMPC-X
PMM-1	Patch	(R) DB25	(R) DB25			PMCH-1 or 2	PMPC-X
PMM-2	Patch	(R) DB25	(P) DB25			PMCH-1 or 2	PMPC-X
PMM-2 (R)	Patch-Red	(R) DB25	(P) DB25			PMCH-1 or 2	PMPC-X
PIMMLA-1	Interface	(R) DB25	(R) DB25	•	•	PMCH-1	PMPC-X
PMME-1	Interface	(R) DB25	(R) DB25			PMCH-1 or 2	PMPC-X
PIMMLA-2	Test	(R) DB25		•	•	PMCH-1 or 2*	PMPC-X
PMME-2	Test	(R) DB25				PMCH-1 or 2	PMPC-X
PMBP-2	Breakout			•		PMCH-1 or 2*	PMPC-X
PMBP-1	Breakout					PMCH-1 or 2	PMPC-X

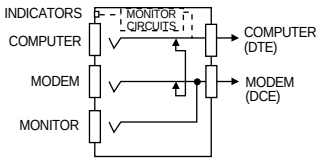
P = Plug/Male Connector
R = Receptacle/Female Connector

*External power supply DMPS-11 or DMPS-11E is required when used in unpowered chassis PMCH-2.

EIA-232/V.24 PatchMate™
Modules

Patch Module with LEDs and Alarms

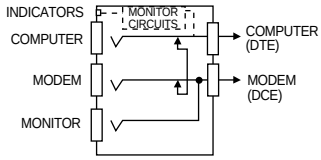
PMMLA-1 (R/R)
PMMLA-2 (P/R)



- Alarming is on with absence or continued presence of an electrical signal
- Alarm indicated by an amber LED and/or an audible output
- A front panel selection switch allows choice of alarm off, audible and visual alarm, or visual alarm only
- An eight-position rotary switch allows discrete selection of alarm delay between 50 µ seconds and 68 seconds (Alarm delays will differ slightly in countries with 50 Hz power)
- Alarming on any monitored signal is user-selectable by simply moving a strap on the module
- Use with chassis PMCH-1

Patch Module with LEDs and without Alarms

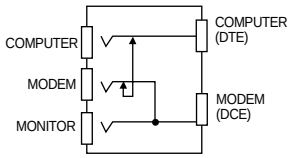
PMML-1 (R/R)
PMML-2 (P/R)



- Use with chassis PMCH-1

Patch Module without LEDs or Alarms

PMM-1 (R/R)
PMM-2 (P/R)



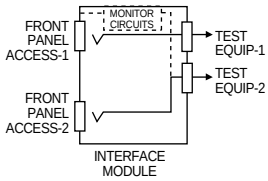
- Use with chassis PMCH-1 or PMCH-2
- No power supply is required

P= Plug/Male Connector
R= Receptacle/Female Connector

EIA-232/V.24 PatchMate™
Modules

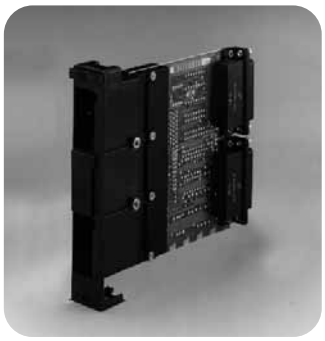
Interface Module with LEDs and Alarms

PIMMLA-1 (R)

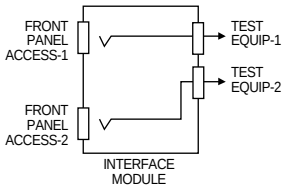


- Provides two front panel PatchMate jacks and two rear connectors
- Allows test equipment or spare ports to be terminated within the chassis
- LED monitoring and alarming circuitry are associated with the bottom monitor port
- Alarm is activated with absence or continued presence of an electrical signal
- Alarm indicated by an amber LED and/or audible alarm located locally in the chassis or remotely
- A front panel selection switch allows choice of alarm "Off", "Audible and Visual Alarm" or "Visual Alarm Only"
- An eight position front panel rotary switch allows discrete selection of alarm delay between 50 µ seconds and 68 seconds (Alarm times will differ slightly in countries with 50 Hz power)
- Use with chassis PMCH-1

Interface Module without LEDs or Alarms

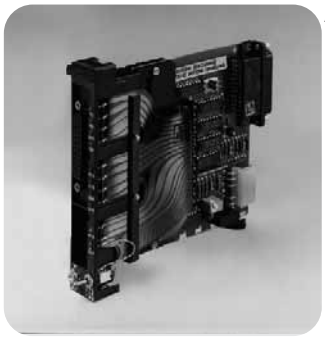


PMME-1 (R)

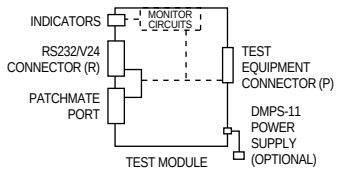


- Provides two front pane PatchMate jacks and two rear connectors
- Allows test or spare equipment to be terminated within the chassis
- Use with PMCH-1 or PMCH-2
- No power supply is required

Test Module with LEDs and Alarms



PIMMLA-2 (R)



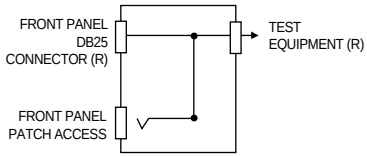
- Provides LED monitoring and an adjustable alarm on the circuit
- Brings EIA-232/V.24 signal leads to DB25 receptacle and PatchMate patch jack
- Use with chassis PMCH-1 or PMCH-2
- External power supply DMPS-11 or DMPS-11E is required when used in unpowered chassis PMCH-2

P= Plug/Male Connector
R= Receptacle/Female Connector

EIA-232/V.24 PatchMate™
Modules

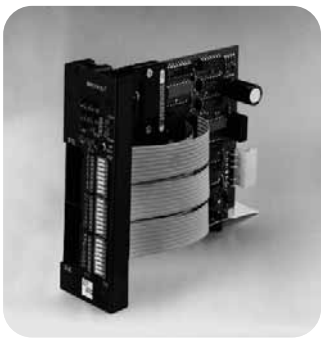
Test Module without LEDs and Alarms

PMME-2 (R)

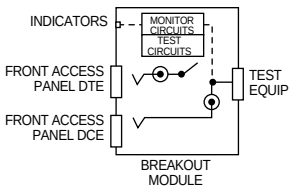


- Brings EIA-232/V.24 signal leads to DB25 receptacle and PatchMate patch jack
- Use with chassis PMCH-1 or PMCH-2
- No power supply is required

Breakout Module with LEDs and without Alarms



PMBP-2

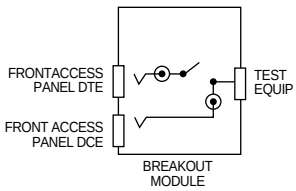


- Available for connecting, disconnecting,cross-connecting, accessing, patching, monitoring or signal insertion on individual circuits within the EIA-232/V.24 multicircuit interface
- Contains nine LED indicators for signal interface monitoring
- Unbalanced test sources
- Pulse trap circuit and test LED can be jumpered from any lead via the pin jacks
- 24 break-off switches
- 48 pin jacks (24 each for DTE/DCE)
- Pin jack jumper kit included
- Uses two slots in chassis PMCH-1 or PMCH-2
- External power supply DMPS-11 or DMPS-11E is required when used in unpowered chassis PMCH-2

Breakout Module without LEDs

PMBP-1

P= Plug/Male Connector
R= Receptacle/Female Connector



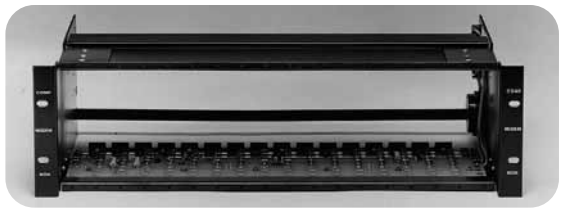
- Available for connecting, disconnecting, cross-connecting, accessing, patching, monitoring or signal insertion on individual circuits within multicircuit interfaces
- Balanced and unbalanced operation
- 24 break-off switches
- 48 pin jacks (24 each for DTE/DCE)
- Provides one patch jack for DTE connection and one for DCE connection
- Pin jack jumper kit included
- Uses two slots in chassis PMCH-1 or PMCH-2
- No power supply is required

EIA-232/V.24 PatchMate™
Chassis

Powered Chassis

For PatchMate Modules Requiring Power, LEDs and Alarming

- Designed to provide power to modules with LEDs and alarms
- May also be used with unpowered modules
- Mounts up to 18 modules
- Chassis PMCH-1 is labeled to correspond with all EIA-530, EIA-232 and V.35 modules
- Requires power supply DMPS-5, DMPS-5E or DMPS-548



PMCH-1

Unpowered Chassis

For Unpowered PatchMate Modules

- Designed to be used with modules that do not require power
- Mounts up to 18 modules
- Chassis PMCH-2 is labeled to correspond with all EIA-530, EIA-232 and V.35 modules
- LED breakout and test modules require the use of power supply DMPS-11 or DMPS-11E when used in chassis PMCH-2

PMCH-2

Module Catalog Number	PMCH-1 (Powered)	PMCH-2 (Unpowered)
EIA-232/V.24		
PMMLA-1	R	N
PMMLA-2	R	N
PMML-1	R	N
PMML-2	R	N
PMM-1	C	R
PMM-2	C	R
PMM-2 (R)	C	R
PIMMLA-1	R	N
PIMMLA-2	R	C
PMME-1	C	R
PMME-2	C	R
PMBP-2	R	C
PMBP-1	C	R

R = Recommended C = Compatible N = Not Compatible

EIA-232/V.24 PatchMate™
Patch Cords

EIA-232/V.24 Patch Cords

- Unbalanced, key type B
- Plug is black, cord is grey

Catalog Number	Cord Type	Length (in feet)
PMPC-1R5	EIA-232 PatchMate	1.5
PMPC-2	EIA-232 PatchMate	2
PMPC-3	EIA-232 PatchMate	3
PMPC-4	EIA-232 PatchMate	4
PMPC-6	EIA-232 PatchMate	6
PMPC-8	EIA-232 PatchMate	8
PMPC-10	EIA-232 PatchMate	10
PMPC-12	EIA-232 PatchMate	12
PMPC-15	EIA-232 PatchMate	15
PMPC-30	EIA-232 PatchMate	30
PMPC-200	EIA-232 PatchMate	200

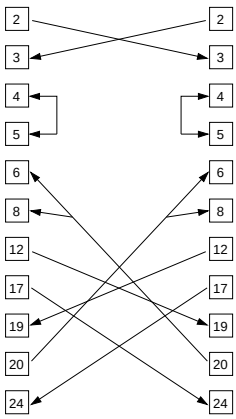
EIA-232/V.24 Conversion Patch Cords

- Converts PatchMate Key Type B plug to EIA-232 connector

Catalog Number	Cord Type	Length (in feet)
PMCPC-M-6	Conversion (P) DB25 plug or receptacle	6
PMCPC-M-10	Conversion (P) DB25 plug or receptacle	10
PMCPC-F-6	Conversion (R) DB25 plug or receptacle	6
PMCPC-F-10	Conversion (R) DB25 plug or receptacle	10
PMPC-F9-10	Conversion (Female) 9-pin	10

EIA-232/V.24 Modem Eliminator Patch Cords

- Permits back to back connection of two EIA-232 DTE or DCE interfaces



Catalog Number	Cord Type	Length (in feet)
PM-MM-PC-2	Modem Eliminator	2
PM-MM-PC-3	Modem Eliminator	3
PM-MM-PC-4	Modem Eliminator	4
PM-MM-PC-6	Modem Eliminator	6
PM-MM-PC-8	Modem Eliminator	8
PM-MM-PC-10	Modem Eliminator	10

P= Plug/Male Connector
R= Receptacle/Female Connector

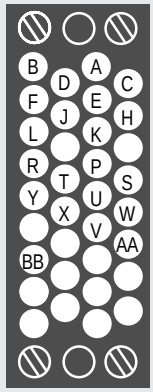
V.35 PatchMate™

The V.35 standard has grown in popularity throughout the industry because of its ability to support high speed narrowband, serial binary data communications applications. Most suppliers of LAN routers, T1 multiplexers, inverse multiplexers, video conferencing systems, channel service units (CSUs), data service units (DSUs) and other high speed data computing or terminal equipment offer the V.35 interface as a standard for wide area networking (WAN) applications. ADC's V.35 PatchMate products are designed and tested to fully support up to 25 conductors of the V.35 balanced data and timing signals and unbalanced control signals operating at speeds up to 2.0 Mbps.

V.35 Summary

- Patches up to 25 leads
- Data rate of DC to 2 Mbps.
- V.35 connector interface
- Key Type B
- Balanced patch cord (PMPC-BV-X) available in 2-10 foot lengths
- Modules and patch cords are grey

V.35 Pin Chart



Pin	Abbreviation	Description	LEDs
A	FG	Frame Ground	
B	SG	Signal Ground	
C	RTS	Request to Send	Green
D	CTS	Clear to Send	Green
E	DSR	Data Set Ready	
F	DCD	Data CXR Detect	Red
H	DTR	Data Terminal Ready	Red
J	RI	Ring Indicator	
K		Unassigned	
L		Unassigned	
M		Unassigned	
N		Unassigned	
P	TD	Transmitted Data (+)	Green
R	RD	Received Data (+)	Green
S	TD	Transmitted Data (-)	
T	RD	Received Data (-)	
U	ETC	Transmitter Clock Ext (+)	
V	RC	Received Clock (+)	Red
W	ETC	Transmitter Clock Ext (-)	
X	RC	Received Clock (-)	
Y	TC	Transmitter Clock (+)	Red
Z		Unassigned	
AA	TC	Transmitter Clock (-)	
BB		Unassigned	
MM	BO	Busy Signal	

V.35 PatchMate™
Assemblies

- Assemblies patch 16 lines and have 2 blank modules
- Assemblies with LEDs have 8 monitoring indicators on each patching module
- One alarm indicator LED is provided on LED modules
- Dimensions (H x W x D): 5.25 x 19 x 12.5 inches (13.3 x 48.26 x 31.7 cm)
- Weight: 21-22 lbs (9-10 kg)
- Patches 25 leads
- Data rate of DC to 2 Mbps.
- V.35 connector interface
- Key Type B
- Balanced patch cord (PMPC-BV-X) available in 2-10 foot lengths
- Modules and patch cords are grey

V.35 LED Chart

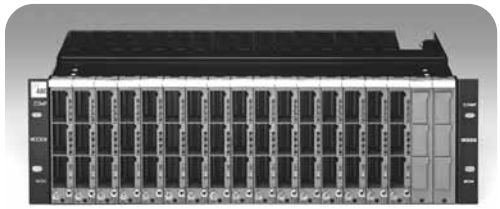
Pin A	Pin B	Abbreviation	LEDs
P	S	TD	Green
R	T	RD	Green
C		RTS	Green
D		CTS	Green
F		DCD	Red
Y	AA	TC	Red
V	X	RC	Red
H		DTR	Red

Catalog Number	Connector		Options		Components Included			Required Power Supply
	Rear/Top (DTE)	Rear/Bottom (DCE)	LEDs	Alarms	QTY/Type Patch Module	Blank Modules	Chassis	
V.35								
PMSLA-16-V35FF	(R) V.35	(R) V.35	•	•	16 PMMLA-V35FF	2	PMCH-1	DMPS-5
PMSLA-16-V35	(R) V.35	(P) V.35	•	•	16 PMMLA-V35	2	PMCH-1	5E, or 548
PMS-16-V35FF	(R) V.35	(R) V.35			16 PMM-V35FF	2	PMCH-2	None
PMS-16-V35	(R) V.35	(P) V.35			16 PMM-V35	2	PMCH-2	None

P = Plug/Male Connector
R = Receptacle/Female Connector

Patching with LEDs and Alarms

- Provides 16 lines of LED/alarm patching utilizing PMMLA-V.35 modules
- Alarm is selectable on one of eight leads and can be activated by either a positive or negative transition
- Power supply DMPS-5, DMPS-5E or DMPS-548 is required



PMSLA-16-V35FF (R/R)
PMSLA-16-V35 (R/P)

Patching without LEDs or Alarms

- Provides 16 lines of non-LED patching utilizing PMM-V.35 modules
- No power supply is required

PMS-16-V35FF (R/R)
PMS-16-V35 (R/P)

V.35 PatchMate™
Modules

- Modules with LEDs have 8 monitoring indicators
- One amber alarm indicator LED is provided on LED modules
- Dimensions (H x W x D): 5.25 x 0.95 x 9.6 inches (13.3 x 2.41 x 24.5 cm)
- Weight: 9 oz. (252 g)
- Requires cable support bar BKT-V35
- Includes a sub-board which installs easily onto any PatchMate chassis to allow removal of the patch module without removing the attached cables and provides strapping options to select patching of additional leads
- Pin A (frame ground) can be left routed from the DTE to the DCE connector or through the patch mechanism
- The standard 19 leads routed through the patch mechanism and any 6 of the remaining 15 leads can be user selected by the insertion of hardwire straps to give the user full patch access to 25 of the 34 leads
- Patches up to 25 leads
- Data rate of DC to 2 Mbps
- V.35 connector interface
- Key Type B
- Balanced patch cord (PMPC-BV-X) available in 2-10 foot lengths

V.35 LED Chart

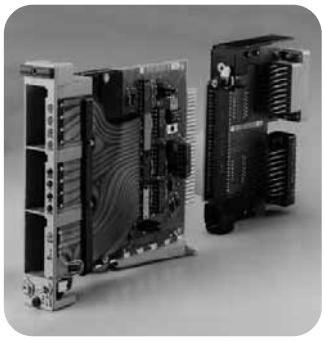
Pin A	Pin B	Abbreviation	LEDs
P	S	TD	Green
R	T	RD	Green
C		RTS	Green
D		CTS	Green
F		DCD	Red
Y	AA	TC	Red
V	X	RC	Red
H		DTR	Red

Catalog Number	Module Type	Connector		Options		Recommended Products	
		Rear/Top (DTE)	Rear/Bottom (DCE)	LEDs	Alarms	Chassis	Patch Cords
V.35							
PMMLA-V35FF	Patch	(R) V.35	(R) V.35	•	•	PMCH-1	PMPC-BV-X
PMMLA-V35	Patch	(R) V.35	(P) V.35	•	•	PMCH-1	PMPC-BV-X
PMM-V35FF	Patch	(R) V.35	(R) V.35			PMCH-1 or 2	PMPC-BV-X
PMM-V35	Patch	(R) V.35	(P) V.35			PMCH-1 or 2	PMPC-BV-X
PIMMLA-V35	Interface	(R) V.35	(R) V.35	•	•	PMCH-1	PMPC-BV-X
PMME-V35	Interface	(R) V.35	(R) V.35			PMCH-1 or 2	PMPC-BV-X

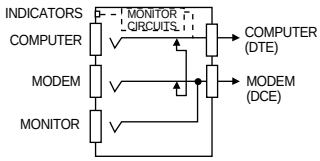
P = Plug/Male Connector
R = Receptacle/Female Connector

V.35 PatchMate™
Modules

Patch Module with LEDs and Alarms

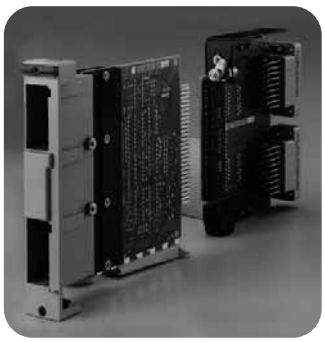


PMMLA-V35FF (R/R)
PMMLA-V35 (R/P)

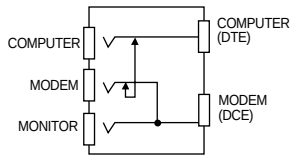


- Real time status LEDs
- Provides user selectable alarm which is activated by either a positive or negative transition on any one of the eight leads
- Alarm circuitry is optioned by straps on the module
- A front panel selection switch allows for a choice of visual alarms only, visual and audible alarm, or alarm "OFF"
- Alarming is indicated audibly on the chassis and/or visually by an amber LED located on the module
- A separate front panel eight position rotary switch allows discrete selection of alarm delay between 50 µ seconds and 68 seconds. (Alarm delay will vary slightly in countries with 50 Hz power.)
- By using straps, the clock source (TC) can be user selected from either the DTE or DCE device
- Use with chassis PMCH-1

Patch Module without LEDs or Alarms



PMM-V35FF (R/R)
PMM-V35 (R/P)

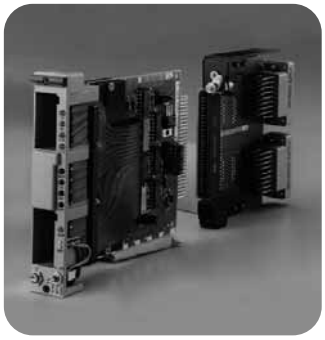


- Provides patch access for V.35 interface
- Use with chassis PMCH-1 or PMCH-2
- No power supply is required

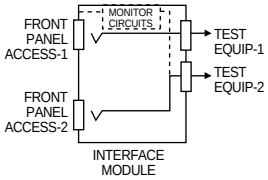
P= Plug/Male Connector
R= Receptacle/Female Connector

V.35 PatchMate™
Modules

Interface Module with LEDs and Alarms

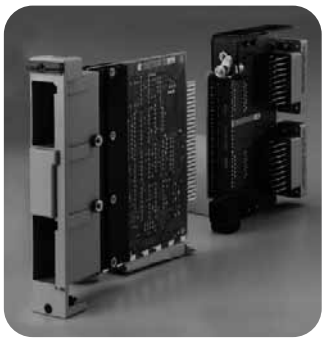


PIMMLA-V35 (R/R)

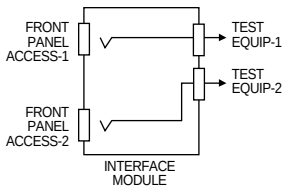


- Used to provide jack access to a data line monitor, analyzer, or spare ports
- Real time status indicated with LEDs
- Provides user selectable alarm which is activated by either a positive or negative transition on any one of the eight leads
- Alarm circuitry is optioned by straps on the module
- A front selection switch allows for a choice of visual alarm only, visual and audible alarm, or alarm "OFF"
- Alarming is indicated audibly on the chassis and/or visually by an amber LED located on the module
- A separate front panel eight position rotary switch allows discrete selection of alarm delay between 50 µ seconds and 68 seconds
- By using straps, the clock source (TC) can be user selected from either the DTE or DCE device
- Use with chassis PMCH-1

Interface Module without LEDs or Alarms



PMME-V35 (R/R)



- Can be used as a test access port to access a data line monitor, as a trunking module, or to access spare ports
- Use with chassis PMCH-1 or PMCH-2
- No power supply is required

Subboard Assembly

- PMO-513001: Subboard Female/Female Assembly
- PMO-516001: Subboard Female/Male Assembly

P= Plug/Male Connector
R= Receptacle/Female Connector

V.35 PatchMate™
Chassis

Powered Chassis

For PatchMate Modules Requiring Power, LEDs and Alarming

- Designed to provide power to modules with LEDs and alarms
- Mounts up to 17 V.35 modules in positions 1 through 17
- Requires accessory BKT-V35 (cable support bar)
- May also be used with unpowered modules
- Chassis PMCH-1 is labeled to correspond with all EIA-530, EIA-232 and V.35 PatchMate modules
- Requires power supply DMPS-5, DMPS-5E or DMPS-548

PMCH-1

Unpowered Chassis

For Unpowered PatchMate Modules

- Designed to be used with modules that do not require power
- Mounts up to 17 V.35 modules in positions 1 through 17
- Requires accessory BKT-V35 (cable support bar)
- Chassis PMCH-2 is labeled to correspond with all EIA-530, EIA-232 and V.35 PatchMate modules

PMCH-2

Module Catalog Number	PMCH-1 (Powered)	PMCH-2 (Unpowered)
V.35		
PMMLA-V35FF	R	N
PMMLA-V35	R	N
PMM-V35FF	C	R
PMM-V35	C	R
PIMMLA-V35	R	N
PMME-V35	C	R

R = Recommended C = Compatible N = Not Compatible

V.35 PatchMate™
Patch Cords

V.35 Patch Cords

- Balanced, Key Type B

Catalog Number	Cord Type	Length (in feet)
PMPC-BV-2	V.35 PatchMate	2
PMPC-BV-3	V.35 PatchMate	3
PMPC-BV-4	V.35 PatchMate	4
PMPC-BV-6	V.35 PatchMate	6
PMPC-BV-8	V.35 PatchMate	8
PMPC-BV-10	V.35 PatchMate	10
PMPC-BV-20	V.35 PatchMate	20
PMPC-BV-35	V.35 PatchMate	35
PMPC-BV-50	V.35 PatchMate	50
PMPC-BV-75	V.35 PatchMate	75
PMPC-BV-100	V.35 PatchMate	100
PMPC-BV-200	V.35 PatchMate	200

V.35 Conversion Patch Cords

- Converts PatchMate plug or receptacle to V.35 plug or receptacle connector

Catalog Number	Cord Type	Length (in feet)
PMCPC-MV-6	Conversion (P)	6
PMCPC-MV-10	Conversion (P)	10
PMCPC-MV-20	Conversion (P)	20
PMCPC-MV-45	Conversion (R)	45
PMCPC-FV-6	Conversion (R)	6
PMCPC-FV-10	Conversion (R)	10

V.35 Subboard- Patch Cord Assembly

Catalog Number	Connector Type
PM0-513001	Female/Female
PM0-516001	Male/Female

P= Plug/Male Connector
R= Receptacle/Female Connector

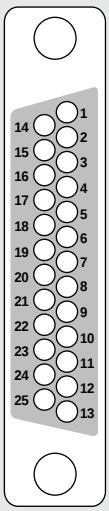
EIA-422/V.11 (X.27) PatchMate™
Patch Cords

To meet the ever increasing bandwidth requirements of data communications networks, the EIA-422/V.11 (X.27) specifications were created. Although the balanced serial binary digital interface standards address electrical characteristics only, it does define data signal transfer rates up to 10 Mbps. ADC's EIA-422/V.11 (X.27) PatchMate products are designed and tested to support data rates in excess of 13 Mbps. ADC has defined the mechanical interface for 5 of the EIA-422/V.11 (X.27) balanced data and timing circuits, and the remaining conductors are available for user functional assignment.

EIA-422/V.11 (X.27) Summary

- Patches 25 leads
- Data rate up to 13 Mbps
- DB25 connector interface
- Key Type A and B available
- Balanced patch cords PMPC-B-X (Key Type B) and PMP-6XX002 (Key Type A) are used
- Modules and patch cords are red (Key Type A) and/or black (Key Type B)

EIA-422/V.11 (X.27) Pin Chart



Pin	Abbreviation	Description	LEDs
1	FG	Frame Ground	
2	TD	Transmitte Data (+)	Green
3	RD	Received Data (+)	Red
4	RTS	Request To Send	
5	CTS	Clear To Send	
6	DSR	Data Set Ready	
7	SG	Signal Ground	
8	DCD	Data Carrier Detect	
9		Positive DC Test Voltage	
10		Negative DC Test Voltage	
11		Unassigned	
12		Unassigned	
13		Unassigned	
14	TD	Transmitted Data (-)	Green
15	Sync	Sync	Red
16	Sync	Sync	Red
17	RC	Received Clock (+)	Red
18	RC	Received Clock (-)	Red
19	RD	Received Data (-)	Red
20	DTR	Data Terminal Ready	
21	SQ	Signal Quality Detect	
22	RI	Ring Indicator	
23	TC	Transmitter Clock (-)	Green
24	TC	Transmitter Clock (+)	Green
25		Test Mode	

EIA-422/V.11 (X.27) PatchMate™
Assemblies

- Dimensions (H x W x D): 5.25 x 19 x 9 inches (13.3 x 48.26 x 22.9 cm)
- Weight: 11-13 lbs (5-6 kg)
- Patches 25 leads
- Data rate up to 13 Mbps
- DB25 connector interface
- Key Type A or B available
- Balanced patch cord PMPC-B-X (Key Type B) and PMP-6XX002 (Key Type A) are used
- Modules and patch cord plugs are red (Key Type A) or black (Key Type B)

EIA-422/V.11 LED CHART

Pin A	Pin B	Abbreviation	LEDs
2	14	TD	Green
24	23	TC	Green
3	19	RD	Red
17	18	RC	Red
15	16	SYNC	Red

Catalog Number	Connector		Options		Key Type	Components Included				Required Power Supply
	Rear/Top (DTE)	Rear/Bottom (DCE)	LEDs	Alarms		QTY/Type Patch Mod.	QTY/Type Other Mod.	Blank Mod.	Chassis	
EIA-422										
PMS-B-16-MF	(P) DB25	(R) DB25			B	16 PMM-B-2	None	2	PMCH-2N	None
PMS-616002	(P) DB25	(R) DB25			A	16 PMM-616002	None	2	PMCH-2N	None

P= Plug/Male Connector
R= Receptacle/Female Connector

EIA-422/V.11 (X.27) PatchMate™
Assemblies

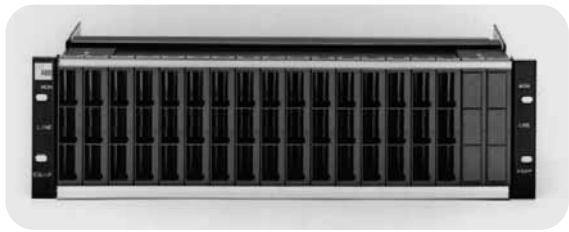
Balanced Patching without LEDs or Alarms

- Includes 16, Key Type B, non-LED PMM-B-2 patching modules
- The monitor port is located on the top row of jacks, with DCE (LINE) in the middle row, and DTE (EQUIP) on the bottom row
- Modules and patch cords are black
- Use with patch cord PMPC-B-X
- No power supply is required

PMS-B-16-MF (P/R)
PMS-B-16-MF (R)

Balanced Key Type "A" Patching without LEDs or Alarms

- Includes 16, Key Type A, non-LED PMM-616002 patching modules
- Key Type A makes it impossible to patch between a standard Key Type B patch module and the Key Type A version
- Modules and patch cords are red
- Black or grey modules available upon request
- Use with patch cord PMP-6XX002
- No power supply is required



PMS-616002 (P/R)

P= Plug/Male Connector
R= Receptacle/Female Connector

EIA-422/V.11 (X.27) PatchMate™
Modules

- Dimensions (H x W x D): 5.25 x 0.95 x 5.5 inches (13.3 x 2.41 x 13.97 cm)
- Weight: 9 oz. (252 g)
- Patches 25 Leads
- Data rate up to 13 Mbps
- DB25 connector interface
- Key Type A or B available
- Balanced patch cords PMPC-B-X (Key Type B) and PMP-6XX002 (Key Type A) are used
- Modules and patch cord plugs are red (Key Type A) and black (Key Type B)

EIA-422/V.11 LED Chart

Pin A	Pin B	Abbreviation	LEDs
2	14	TD	Green
24	23	TC	Green
3	19	RD	Red
17	18	RC	Red
15	16	SYNC	Red

Catalog Number	Module Type	Connector			Other		Recommended Equipment	
		Rear/Top (DTE)	Rear/Bottom (DCE)	LEDs	Key Type	Color	Chassis	Patch Cords
EIA-422								
PMML-B-2	Patch	(R) DB25	(P) DB25	•	B	Black	PMCH-6	PMPC-B-X
PMM-B-2	Patch	(R) DB25	(P) DB25		B	Black	PMCH-2N or 6	PMPC-B-X
PMM-B-2 (R)	Patch	(R) DB25			B	Red	PMCH-2N or 6	PMPC-B-X
PMM-616002	Interface	(R) DB25	(P) DB25		A	Red	PMCH-2N or 6	PMP-6XX002
PMME-B-1	Interface	(R) DB25	(R) DB25				PMCH-2N or 6	PMPC-B-X
PIMML-B-1	Test	(P) DB25	(R) DB25	•	B	Black	PMCH-6	PMPC-B-X
PIMML-B-2	Patch	(R) DB25		•	B	Black	PMCH-2N*or 6	PMPC-B-X

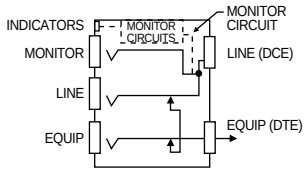
P = Plug/Male Connector
R = Receptacle/Female Connector

* External power supply DMPS-11 or DMPS-11E is required when used in unpowered chassis PMCH-2N.

EIA-422/V.11 (X.27) PatchMate™
Modules

Patch Module with LEDS and without Alarms

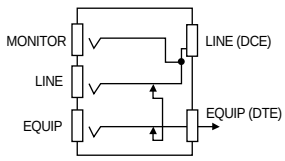
PMML-B-2 (R/P)



- Status indication is provided by five LED indicators
- The monitor port is located in the top jack
- Use with chassis PMCH-6 and patch cord PMPC-B-X

Patch Module without LEDS or Alarms

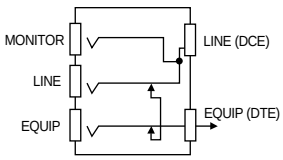
PMM-B-2 (R/P)
PMM-B-2 (R)



- Patches 25 leads of the interface
- Use with chassis PMCH-2N or PMCH-6 and patch cord PMPC-B-X
- No power supply is required

Key Type "A" Patch Module without LEDs or Alarms

PMM-616002 (R/P)

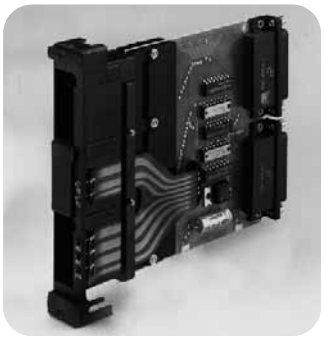


- Reverse keying makes it impossible to patch between a standard Key Type B patch module and the reverse Key Type A version
- Modules and patch plugs are red
- Use with chassis PMCH-2N and patch cord PMP-6XX002
- No power supply is required

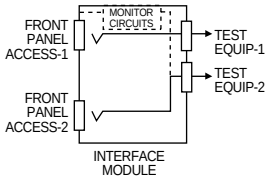
P= Plug/Male Connector
R= Receptacle/Female Connector

EIA-422/V.11 (X.27) PatchMate™
Modules

Interface Module with LEDs and without Alarms



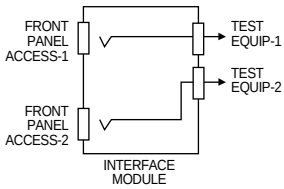
PIMML-B-1 (R/R)



- Allows test equipment or other miscellaneous equipment to be terminated within the chassis
- Balanced indicators monitor the status of TD (pins 2 and 14), TC (pins 24 and 23), RD (pins 3 and 19), RC (pins 17 and 18), and XTC (pins 15 and 16)
- Unbalanced indicators (referenced to pin 7) monitor RTS (pin 4), CTS (pin 5) and DCD (pin 8)
- Use with chassis PMCH-6

Interface Module without LEDs or Alarms

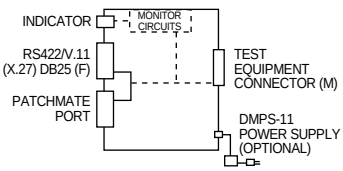
PMME-B-1 (R/R)



- Allows test equipment or other miscellaneous equipment to be terminated within the chassis
- Use with chassis PMCH-2N or PMCH-6
- No power supply is required

Test Module with LEDs and without Alarms

PIMML-B-2 (R)



- Brings EIA-422/V.11(X.27) signal leads to DB25 receptacle on front and DB25 plug on rear
- Balanced indicators monitor the status of TD (pins 2 and 14), TC (pins 24 and 23), RD (pins 3 and 19), RC (pins 17 and 18), and XTC (pins 15 and 16)
- Unbalanced indicators (referenced to pin 7) monitor RTS (pin 4), CTS (pin 5) and DCD (pin 8)
- Use with chassis PMCH-2N or PMCH-6
- External power supply DMPS-11 or DMPS-11E is required when used in unpowered chassis PMCH-2N

P= Plug/Male Connector
R= Receptacle/Female Connector

EIA-422/V.11 (X.27) PatchMate™
Chassis

Powered Chassis

Powered Chassis for PatchMate Modules Requiring Power, LED and Alarming

- Designed to provide power to modules with LEDs
- May also be used with unpowered modules
- Mounts up to 18 modules
- Requires power supply DMPS-5 or DMPS-5E
- Chassis PMCH-6 is labeled to correspond with EIA-422/V.11(X.27) modules

PMCH-6

Unpowered Chassis

For Unpowered PatchMate Modules

- Designed to be used with modules that do not require power
- Mounts up to 18 modules
- Chassis PMCH-2N is labeled to correspond with EIA-422/V.11(X.27) modules
- LED test modules require the use of power supply DMPS-11 or DMPS-11E when used in chassis PMCH-2N

PMCH-2N

Module Catalog Number	PMCH-1 (Powered)	PMCH-2 (Unpowered)
EIA-422/V.11 (X.27)		
PMML-B-2	R	N
PMM-B-2	C	R
PMM-616002	C	R
PIMML-B-1	R	N
PIMML-B-2	R	C
PMM-B-2 (R)	C	R

R = Recommended C = Compatible N = Not Compatible

EIA-422/V.11 (X.27) PatchMate™
Patch Cords

Balanced Patch Cords

Catalog Number	Cord Type	Length (in feet)	Key Type	End Color
EIA-422/V.11 (X.27)				
PMPC-B-2	EIA-422 PatchMate	2	B	Black
PMPC-B-3	EIA-422 PatchMate	3	B	Black
PMPC-B-4	EIA-422 PatchMate	4	B	Black
PMPC-B-6	EIA-422 PatchMate	6	B	Black
PMPC-B-10	EIA-422 PatchMate	10	B	Black
PMP-602002	EIA-422 PatchMate	2	A	Red
PMP-602003	EIA-422 PatchMate	2	A	Grey
PMP-603002	EIA-422 PatchMate	3	A	Red
PMP-606002	EIA-422 PatchMate	6	A	Red

PatchMate™
Power Supplies

110V-120V/60Hz Power Supply

Catalog Number: DMPS-5

- Will power one full chassis from a standard 110V/60Hz power source
- Outlet mounted transformer
- Compatible with chassis PMCH-1 and PMCH-6
- Includes six foot (1.82 m) cable for attachment to patch chassis

DMPS-5

110V-120V/60Hz Power Supply

Catalog Number: DMPS-5A

- Required to power EIA-530 LED assemblies
- Input power cable
- Compatible with chassis PMCH-1 and PMCH-6

DMPS-5A

220V-240V/50Hz Power Supply

Catalog Number: DMPS-5E

- Will power one full chassis from a 220V-240V/50Hz power source
- Input power cable
- Compatible with chassis PMCH-1 and PMCH-6

DMPS-5E

-48 Vdc Power Supply

Catalog Number: DMPS-548

- Module converts -48 Vdc to power a full chassis
- Input power connections are made using screw terminals
- Occupies two slots in chassis PMCH-1 and PMCH-6

DMPS-548

220V-240V/50Hz Power Supply

Catalog Number: DMPS-11E

- Used to power breakout or test modules in unpowered chassis PMCH-2 or PMCH-2N
- Output cable is terminated with an inline connector

DMPS-11E

110V-120V/60Hz Power Supply

Catalog Number: DMPS-11

- Used to power breakout or test modules in unpowered chassis PMCH-2 or PMCH-2N
- Outlet mounted transformer
- Output cable is terminated with an inline connector

PatchMate™
Chassis

Powered Chassis

- Designed to provide power to modules, LEDs and alarms
- May also be used with unpowered modules
- Mounts up to 18 modules

PMCH-1

Catalog Number: PMCH-1

- Labeled to correspond with all PatchMate EIA-530, EIA-232/V.24 and V.35 modules
- Requires power supply DMPS-5A when used with EIA-530 assemblies and modules
- Requires power supply DMPS-5, DMPS-5E or DMPS-548 when used with EIA-232/V.24 and V.35 assemblies and modules

Catalog Number: PMCH-6

- Compatible with EIA-422/V.11 (X.27) modules
- Labeled to correspond with the port arrangement on modules PMML-B-2, PMM-B-2 and PMM-616002
- Requires power supply DMPS-5, DMPS-5E or DMPS-548

PMCH-6

Unpowered Chassis

- Designed to be used with modules that do not require power
- Mounts up to 18 modules
- LED breakout and test modules require the use of power supply DMPS-11 or DMPS-11E when used in unpowered chassis PMCH-2 or PMCH-2N

PMCH-2-3

Catalog Number: PMCH-2, PMCH-2-3, PMCH-2-9

- Labeled to correspond with all PatchMate EIA-530, EIA-232/V.24 and V.35 modules
- Mini-chassis 3 or 9 position available

Catalog Number: PMCH-2N

- Compatible with EIA-422/V.11 (X.27) modules
- Chassis PMCH-2N is labeled to correspond with the port arrangement on modules PMML-B-2, PMM-B-2 and PMM-616002

PMCH-2N

Compatibility Chart

	Powered		Unpowered			
Catalog Number	**PMCH-1**	**PMCH-6**	**PMCH-2**	**PMCH-2N**	**PMCH-2-3**	**PMCH-2-9**
EIA-530						
PMM-614001	R	N	N	N	N	N
PMM-616001	C	N	R	N	R	R
PMM-616004	C	N	R	N	R	R
PMM-616004RED	C	N	R	N	R	R
PMM-616005	C	N	R	N	N	N
PMM-616003	C	N	R	N	N	N
PMBP-530-2	R	N	C*	N	N	N
PMBP-530-1	C	N	R	N	N	N
EIA-232/V.24	R	N	N	N	N	N
PMMLA-1	R	N	N	N	N	N
PMMLA-2	R	N	N	N	N	N
PMML-1	R	N	N	N	N	N
PMML-2	C	N	R	N	R	R
PMM-1	C	N	R	N	N	N
PMM-2	C	N	R	N	N	N
PMM-2 (R)	R	N	N	N	N	N
PIMMLA-1	R	N	C*	N	N	N
PIMMLA-2	C	N	R	N	N	N
PMME-1	C	N	R	N	N	N
PMME-2	R	N	C*	N	N	N
PMBP-2	C	N	R	N	N	N
PMBP-1						
Mount up to 17 V.35 modules in positions 1 through 17 Mounting V.35 requires accessory BKT-V.35 (cable support bar)						
V.35						
PMMLA-V35FF	R	N	N	N	N	N
PMMLA-V35	R	N	N	N	N	N
PMM-V35FF	C	N	R	N	N	N
PMM-V35	C	N	R	N	R	R
PIMMLA-V35	R	N	N	N	N	N
PMME-V35	C	N	R	N	N	N
EIA-422/V.11 (X.27)						
PMML-B-2	N	R	N	N	N	N
PMM-B-2	N	C	N	R	R	R
PMM-616002	N	C	N	R	N	N
PMME-B-1	N	C	N	R	N	N
PIMML-B-2	N	R	N	C*	N	N
PMM-B-2 (R)	N	C	N	R	N	N

R = Recommended
C = Compatible
N = Not Compatible

* LED breakout and test modules require power supply DMPS-11 or DMPS-11E when used in unpowered chassis PMCH-2 or PMCH-2N.

PatchMate™
Accessories

Designation Strip and Card Replacement Kit

Catalog Number: DSK-1

- Replacement designation strip base kit used on all top mount 1/4" designation strips on PatchMate and PatchSwitch assemblies

Designation Strips, Windows and Cards

- Replacement 1/4" and 1/2" designation strips, windows and cards; sold individually

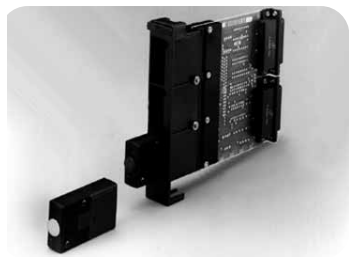
Description	Catalog Number 1/4" Height	Catalog Number 1/2" Height
Designation Strips	PMO-000006	PMO-000009
Designation Windows	PMO-000002	PMO-000010
Designation Cards	PMO-000003	PMO-000004
Designation Strip Kit	PMO-000011	PMO-100001

Screw Base Replacement Kit

Catalog Number: PMDS-1

- Replacement designation strip base kit used on all top mount 1/4" designation strips on PatchMate and PatchSwitch assemblies
- Termination Tool: PMLP-TOOL

Data Circuit Guards



Catalog Number: PMCG-1, PMCG-2

- Can be inserted into any PatchMate or PatchSwitch patch jacks to keep technicians from accidentally patching critical circuits
- Does not activiate the circuit on insertion
- PMCG-1 is red
- PMCG-2 is white

Blank Panels

Catalog Number: PMBF-1, PMBF-1 (R), PMM-030001

- For use with chassis PMCH-1, PMCH-2, PMCH-6 or PMCH-2N
- Use to fill unused slots
- Assemblies often come with one or two blank panels
- PMBF-1 is black
- PMBF-1(R) is red
- PMM-030001 is grey

Cable Support Bar Kit

Catalog Number: BKT-V35

- Contains two extended support bars and attachment hardware
- Kit is required for use on any PatchMate chassis with V.35 modules

Miscellaneous

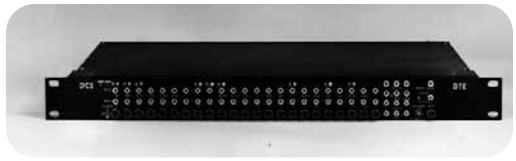
Catalog Number: PMDP-530-A

- Dummy plug can only be used in EIA-530 System

Catalog Number: EB-52B

- Extender bracket for 23" chassis

Alarm Breakout Panel



Catalog Number: DMBP-1

- Provides monitoring, maintenance and test capabilities
- May be used as a stand-alone unit or as an accessory to a PatchMate system
- Front panel offers LED (red and green) indications of data signals, simulation of control signals, and patching of an alarm pulse catcher to any of 23 leads
- Two LEDs (+ and -) are provided for each of the 23 leads
- Connected or patched to the data circuit at the EIA-232 interface between the modem and the terminal equipment
- The 23 leads are then accessible at the front of the alarm/breakout panel for monitoring, breakoff and testing by using a DMPJ-1 pin jack patch cord kit
- Signal faults are quickly and easily detected by visual indicators and/or audible alarm
- Special PatchMate PMCPC-PM-X patch cords and DMPJ-1 pin jack cords are recommended
- Self-contained power supply with integral AC line card

Pin Jack Jumper Kit

Catalog Number: DMPJ-1

- Contains four 12" (30.5 cm) pin jack jumper cords and one 18" (46 cm) pin jack jumper cord
- Used with the DMBP-1 alarm breakout panel (above)

DMBP-1 Alarm Breakout Panel Patch Cords

- Converts PatchMate Key Type B plug to DMBP-1 patch plug

Catalog Number	Connector Type	Length (in feet)
PMCPC-PM-4	Alarm Panel	4
PMCPC-PM-6	Alarm Panel	6

Looping Plugs

Catalog Numbers: PMLP-4, PMLP-5, PMLP-6

- Can be inserted into any patch jack to loop signals back toward DTE or DCE
- The PMLP-4 plug has jumpers between pins 2/3, 14/19, 17/24 and 18/23
- The PMLP-5 plug has jumpers between pins 2/3 and 15/17
- The PMLP-6 plug has jumpers between pins 2/4, 3/5, 14/16 and 15/17

Customized Looping Plugs

- Custom versions are created by simply moving the jumper wires inside each plug
- Loop Plug Kit- Key Type A: PMLP-KIT-A
- Loop Plug Kit- Key Type B: PMLP-KIT-B

PatchSwitch™
Introduction

The PatchSwitch product line provides a convenient, organized method of digital communications line access and reconfiguration. The system is completely modular, compatible with most PatchMate products, and may easily be configured to meet the exact needs of your network.

PatchSwitch Product Line

- Local or remote A/B fallback switching initiated automatically or by user
- Rapidly switch large groups of lines to standby circuits
- Manual access for port or line sparing, monitoring, testing and reconfiguring
- Optional alarming and LEDs indicate circuit health
- Modules can be removed without disconnecting cables
- Off-line port access available (most vendors block this access)

Switching Mechanism

- Hermetically sealed, magnetically latched electromechanical relays consume less power and do not "scatter" on power up or down
- Exclusive automatic A/B fallback switches to a secondary line/device if the primary causes an alarm
- Controlled by a simple toggle switch located on the front of each module
- Switches 23 leads on the active interface
- Accidental switching is prevented by an "enable" switch located on the control module
- Modules may be switched individually or in groups of up to 256 modules

Remote Control

- Standard capability, not an extra cost option
- Control via ASC II commands (RS 422) or DC voltage
- Most flexible capability on the market

Patch Cords and Leads

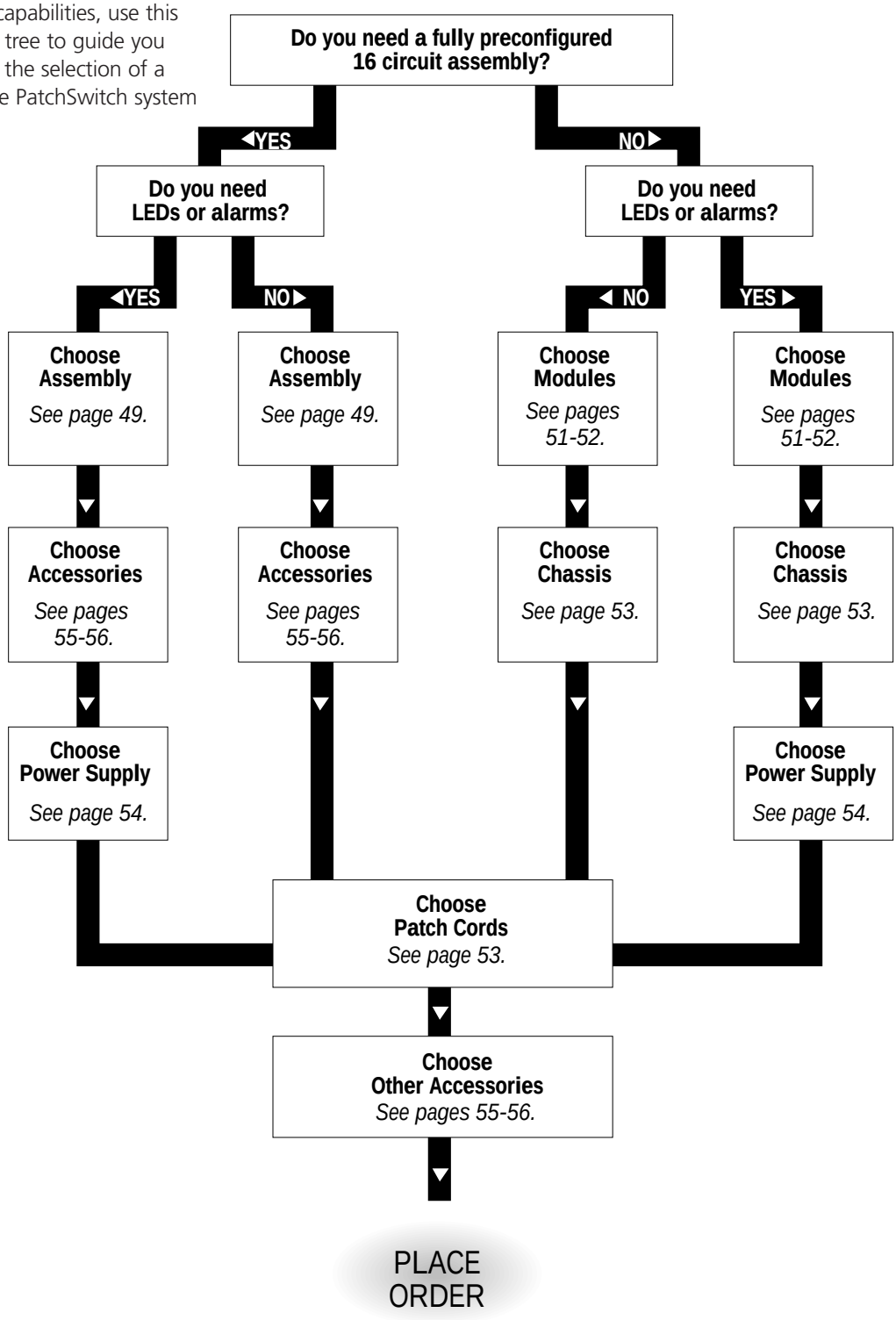
- Patches 24 leads
- Patented spring to spring contact provides solid, reliable connections
- Contacts are gold inlaid and bifurcated to prevent wear, oxidation or material breakdown
- Contacts are fully recessed to prevent breakage or contamination
- Cords are keyed to prevent improper insertion and are fully strain relieved
- Mounting hardware is captive to prevent dropped or lost parts

Alarms and LEDs

- "At a glance" circuit diagnostics
- Eight data line status indicators and alarm circuitry per module
- Green and red LEDs indicate the real time status signal leads
- Instantly tailor alarm conditions to changing needs without module removal
- Controlled by a simple toggle switch located on the front of each module
- Alarming is on with absence of an electrical signal
- Choose "Alarm Off", "Audible and Visual Alarm", or "Visual Alarm Only"
- Select delay from 50µ seconds to 68 seconds
- Reset by touching two contacts on the front of the module
- Most complete feature set on the market

PatchSwitch™ Decision Tree

If you need automatic network control capabilities, use this decision tree to guide you through the selection of a complete PatchSwitch system

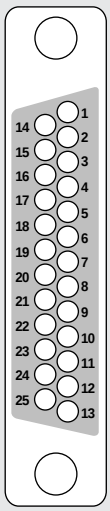


PatchSwitch™
Summary

PatchSwitch Summary

- Patching and/or A/B fallback switching for 23 active leads
- Data rate of DC to 19.2 Kbps
- DB25 connector interface
- Key Type B
- Unbalanced patch cord (PMPC-X) available in 2-10 foot lengths
- Modules and patch cords are black

PatchSwitch™ Pin Chart



Pin	Abbreviation	Description	LEDs
1	FG	Frame Ground	
2	TD	Transmitted Data	Green
3	RD	Received Data	Green
4	RTS	Request to Send	Red
5	CTS	Clear to Send	Red
6	DSR	Data Set Ready	REd
7	SG	Signal Ground	
8	DCD	Data Carrier Detect	Green
9		Positive DC Test Voltage	
10		Negative DC Test Voltage	
11		Unassigned	
12	SCD	Secondary Received Line Detector	
13	SCS	Secondary Clear to Send	
14	STD	Secondary Transmitted Data	
15	TC	Transmitter Clock	
16	SRD	Secondary Received Data	
17	RC	Received Clock	
18	LL	Local Loopback	
19	SRS	Secondary Request to Send	
20	DTR	Data Terminal Ready	Red
21	SQ	Signal Quality Detect	Green
22	RI	Ring Indicator	
23	CH	Data Signal Rate Selector	
24	ETC	External Transmitter Clock	
25	TM	Test Mode	

PatchSwitch™
Assemblies

- Sixteen switching modules in the leftmost positions
- The seventeenth slot of the chassis is filled with a blank
- The eighteenth slot of the chassis is filled with a control module
- Control module provides gang or block switching, switch operation enable, master alarm reset, auto fallback switching and remote control switch processing
- Switch interlock feature permits "B" state switching by only one group of lines at a time
- Equipped to permit local or remote control
- Power supply DMPS-10 or PSW-000003 required
- Dimensions (H x W x D): 7 x 19 x 11 inches (17.8 x 48.26 x 28 cm)
- Weight: 20 lbs (9 kg)
- Patches and/or A/B fallback switching for 23 active leads
- Data rate of DC up to 19.2 Kbps
- DB25 connector interface
- Key Type B
- Patch cord (PMPC-X) available in 2-10 foot lengths
- Modules and patch cords are black

PatchSwitch™ LED Chart

Pin A	Abbreviation	LEDs
2	TD	Green
3	RD	Green
4	RTS	Red
5	CTS	Red
6	DSR	Red
8	DCD	Green
20	DTR	Red
21	SQ	Green

Catalog Number	Connector		Inline Patching	LEDs and Alarms	Components Included			
	Rear/Top & Rear/Middle (DTE)	Rear/Bottom (DCE)			QTY/Type Patch Mod.	Blank Mod.	Control Mod.	Chassis
PSA-02D	(R) DB25	(P) DB25	•	•	16 PSM-01	1	1	RDC-01D
PSA-04D	(R) DB25	(P) DB25	•		16 PSM-02	1	1	RDC-02D

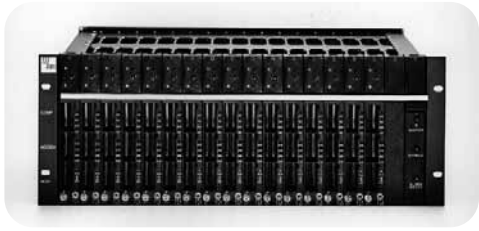
Catalog Number	Power Supply	Patch Cords	Compatible Interface Module
PSA-02D	DMPS-10 or PSW-000003	PMPC-X	PSM-08
PSA-04D	DMPS-10 or PSW-000003	PMPC-X	PSM-08

P = Plug/Male Connector
R = Receptacle/Female Connector

PatchSwitch™
Assemblies

LED/Alarm A/B Switching with Inline Patch Access

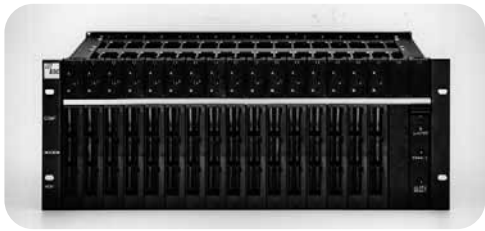
- Provides 16 lines of PSM-01 in-line EIA-232/V.24 digital patching with switching
- Each PSM-01 module contains eight signal monitoring LEDs and alarming circuitry
- Alarming is selectable on any one of the eight leads monitored
- Assemblies are selectable for "auto-fallback" automatic restoral switching upon alarm
- Remote switching capability included
- PSA-01C uses RDC-01D chassis



PSA-02D (R/R/P)

A/B Switching with Inline Patch Access

- Includes 16, Key Type B, non-LED PMM-02 patching modules
- The monitor port is located on the top row of jacks, with DCE (LINE) in the middle row, and DTE (EQUIP) on the bottom row
- Modules and patch cords are black
- Use with patch cord PMPC-B-X



PSA-04D (R/R/P)

P= Plug/Male Connector
R= Receptacle/Female Connector

PatchSwitch™
Modules

- Patch modules contain up to three front panel jacks for easy access to the circuit
- Inline patching allows the user full intrusive (break) and passive (monitor) access to the active or on-line circuit currently switched to service
- Fallback switching is accomplished by holding the "enable" switch and then moving a toggle switch momentarily to "A" or "B"
- Red/green LEDs give visual feedback of current switch status
- Modules mount interchangeably into either RDC-01C or RDC-02C chassis
- Power supply DMPS-10 or PSW-000003 required
- Dimensions (H x W x D): 7 x .95 x 10 inches (17.8 x 2.41 x 25.4 cm)
- Weight: 1 lb (.45 kg)
- Patching and/or A/B fallback switching for 23 active leads
- Data rate of DC up to 19.2 Kbps
- DB25 connector interface
- Key Type B
- Balanced patch cord (PMPC-X) available in 2-10 foot lengths
- Modules and patch cords are black

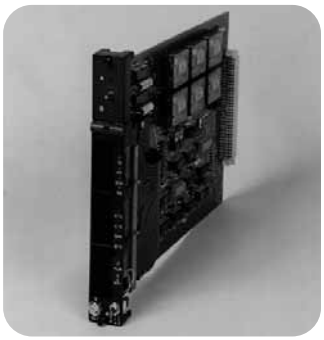
PatchSwitch™ LED Chart

Pin A	Abbreviation	LEDs
2	TD	Green
3	RD	Green
4	RTS	Red
5	CTS	Red
6	DSR	Red
8	DCD	Green
20	DTR	Red
21	SQ	Green

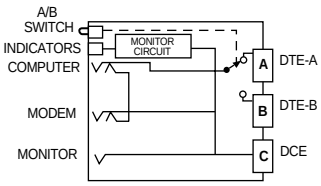
Catalog Number	Module Type	Options		Required Products		
		LED and Alarms	Rear/Bottom (DCE)	Chassis	Patch Cords	Interface
PSM-01	Inline Patch	•	•	RDC-01D	PMPC-X	RS232
PSM-02	Inline Patch		•	RDC-01D	PMPC-X	RS232
PSM-08	Interface		•	RDC-01D	PMPC-X	RS232
PSR-06A	RS232 Converter			RDC-01D	None	RS232
PSM-05A	Blank			RDC-01D	PMPC-X	RS232
PSM-07	Interface	•		RDC-01D	PMPC-X	RS232
PSM-09	Blank			RDC-01D	None	
PSM-18		•	•			V.35
PSM-19			•			V.35
PSR-05	RS422 Converter				None	RS232

PatchSwitch™
Modules

LED/Alarm Inline Patching with A/B Switching



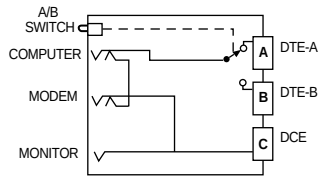
PSM-01



- Includes eight LED data line status indicators and alarm circuitry
- Front panel selection switch allows choice of alarms "OFF", "Audible and Visual Alarm", or "Visual Alarm Only"
- An eight position rotary switch allows selection of alarm delay between 1 microsecond and 68 seconds
- May be configured into "auto fallback" mode, permitting restoral switching whenever alarm condition is sensed

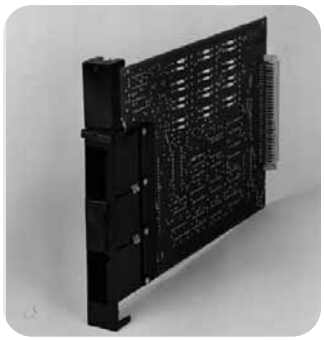
Inline Patching with A/B Switching

PSM-02

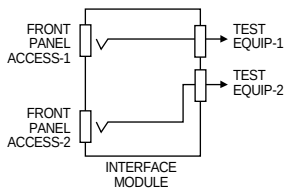


- Provides patch access with switching

Patch Interface



PSM-08



- Provides two front panel jacks which provide direct connection to two connectors on the backplane of the chassis

PatchSwitch™
Chassis

- A rack mountable card cage designed to hold up to 17 modules
- Equipped with a control module mounted in 18th position
- Consists of a backplane with connectors for switch cards and customer cabling and a sheet metal card cage
- The card slot has two receptacle connectors for use with auxiliary modules such as the RS232 interface conversion module (PSR-06A) or test module (PSM-12)
- The DCE connections (common) associated with each of the switch card positions (1-16) are receptacles on the RDC-01D; the DTE connections on both are receptacles
- Two DB9 receptacle connectors are provided to permit EIA-422 or DC voltage remote control equipment to be connected to the chassis
- A power supply DMPS-10 or PSW-000003 is required
- Dimensions (H x W x D): 7 x 19 x 11 inches (17.8 x 48.26 x 28 cm)
- Weight: 11 lbs (5 kg)

RDC-01D (R/R/P)

PatchSwitch™ Patch Cords

- Unbalanced, Key Type B
- Patch cord (PMPC-X) available in 2-10 foot lengths
- Plug is black; cord is grey

Catalog Number	Cord Type	Length (in feet)
PMPC-2	EIA-232/V.24 PatchMate	2
PMPC-3	EIA-232/V.24 PatchMate	3
PMPC-4	EIA-232/V.24 PatchMate	4
PMPC-6	EIA-232/V.24 PatchMate	6
PMPC-10	EIA-232/V.24 PatchMate	10

P= Plug/Male Connector
R= Receptacle/Female Connector

PatchSwitch™
Power Supply

Multi-module Power Supply

- Supplies power to any PatchSwitch chassis
- Use with either 110V/60Hz or 220V/50Hz power sources
- 19" rack mountable chassis
- Equipped with one power supply
- Easy installation of up to 3 additional power supplies (DMPS-10EXP)
- UL, CSA, VDE and IEC approved
- Dimensions (H x W x D): 3.5 x 19 x 11.5 inches (8.89 x 48.26 x 29.21 cm)
- Weight: 12 lb (5.4 kg)

DMPS-10

General Module Power Supply

- Supplies power to any PatchSwitch chassis
- Use with AC power sources ranging from 90-240V and 47-63Hz
- Need for surge protectors, line filters or power line conditioners depends on local power conditions
- UL, CSA, VDE and IEC approved
- Dimensions (H x W x D): 3.75 x 3.5 x 6 inches (9.5 x 8.9 x 15.5 cm)
- Weight: 1.2 lb (0.54 kg)

PSW-000003

PatchSwitch™
Accessories

Blank Module

Catalog Number: PSM-09

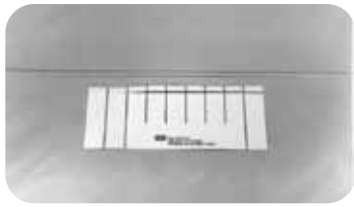
- Use to fill unused slots in PatchSwitch RDC-01D chassis or assemblies

Designation Strip Panel

Catalog Number: PSR-04

- Panel is normally mounted above the PSR-03 so that the operator can easily label and organize either 4 or 8 chassis that may be under the control of the remote control unit
- PSR-04 holds up to 4 designation strips

Designation Strip and Card Replacement Kit



Catalog Number: DSK-1

- Replacement designation strip base kit used on all top mount 1/4" designation strips on PatchMate and PatchSwitch assemblies

Designation Strips, Windows and Cards

- Replacement 1/4" and 1/2" designation strips, windows and cards; sold individually

Ordering Information

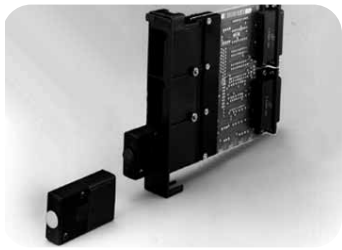
Description	Catalog Number 1/4" Height	Catalog Number 1/2" Height
Designation Strips	PMO-000006	PMO-000009
Designation Windows	PMO-000002	PMO-000010
Designation Cards	PMO-000003	PMO-000004

Screw Base Replacement Kit

Catalog Number: PMDS-1

- Replacement designation strip base kit used on all top mount 1/4" designation strips on PatchMate and PatchSwitch assemblies

Data Circuit Guards

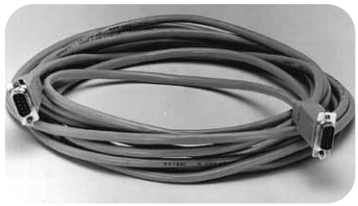


Catalog Number: PMCG-1, PMCG-2

- Can be inserted into any PatchMate or PatchSwitch circuit to keep technicians from accidentally patching critical circuits
- Does not activiate the circuit on insertion
- PMCG-1 is red
- PMCG-2 is white
- PMCG-3, no key type

Remote Control Switch Controller Cables

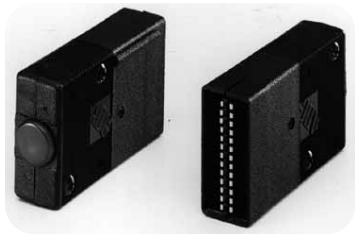
Catalog Number: PSCC9-2



- Used to connect a PSR-03 remote control interface module to the first PatchSwitch chassis
- Can daisy chain up to 16 RDC-01C PatchSwitch chassis or assemblies together

Looping Plugs

Catalog Number: PMLP-4, PMLP-5, PMLP-6



- Can be inserted into any patch jack to loop signals back toward DTE or DCE
- The PMLP-4 plug has jumps between pin 2/3, 14/19, 17/24 and 18/23
- The PMLP-5 plug has jumpers between pins 2/3 and 15/17
- The PMLP-6 plug has jumpers between pins 2/4, 3/5, 14/16 and 15/17

Customized Looping Plugs

- Custom versions are created by simply moving the jumper wires inside each plug
- Loop Plug Kit- Key Type A: PMLP-KIT-A
- Loop Plug Kit- Key Type B: PMLP-KIT-B

Catalog Number	Key Type	Color	Data Rate	Dimensions (H x W x D)	Weight	System Input Power	Power Consumption
EIA-530							
PMM-614001	A	Grey	DC to 20 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	38W
PMM-616001	A	Grey	DC to 5 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	38W
PMM-616004	A	Grey	DC to 20 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	None	None
PMM-616004RED	B	Red	DC to 20 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	None	None
PMM-616005	A	Grey	DC to 20 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	None	None
PMM-616005RED	B	Red	DC to 20 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	None	None
EIA-232/V.24							
PMSLA-16	B	Black	DC to 19.2 K	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	17W
PMSLA-16MF	B	Black	DC to 19.2 K	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	17W
PMSLA-16 (R)	B	Red	DC to 19.2 K	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	17W
PMSLA-16 (G)	B	Grey	DC to 19.2 K	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	17W
PMSL-16	B	Black	DC to 19.2 K	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	17W
PMSL-16-MF	B	Black	DC to 19.2 K	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	17W
PMS-16	B	Black	DC to 19.2 K	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	None	None
PMS-16-MF	B	Black	DC to 19.2 K	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	None	None
V.35							
PMSLA-V35FF	B	Grey	DC to 2 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	17W
PMSLA-16-V35	B	Grey	DC to 2 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	17W
PMS-16-V35FF	B	Grey	DC to 2 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	17W
PMS-16-V35	B	Grey	DC to 2 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	17W

PatchMate™
Specifications – Assemblies

Catalog Number	Key Type	Color	Data Rate	Dimensions (H x W x D)	Weight	System Input Power	Power Consumption
EIA-422/V.11(X.27)							
PMSL-B-17	B	Black	DC to 13 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	8 VAC @47-60Hz	17W
PMS-B-16-MF	B	Black	DC to 13 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	None	None
PMS-B-16-MF (R)	B	Red	DC to 13 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	None	None
PMS-616002	A	Red	DC to 13 Mbps	5.25"x19"x9" (13.3x48.26x22.9cm)	13 lbs (6 kg)	None	None

Unless otherwise noted, all ADC PatchMate and PatchSwitch equipment conforms to the following environmental specifications:

Temperature

Operating: 0°C to +50°C

Storage: -40°C to +70°C

Humidity

Operating and Storage: 5% to 95% relative humidity (no condensation)

PatchMate™
Specifications – Modules

Catalog Number	Key Type	Color	Data Rate	Dimensions (H x W x D)	Weight	System Input Power	Power Consumption
EIA-530							
PMM-614001	A	Grey	DC to 5 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	+5 Vdc unfiltered	1.8W
PMM-616001	A	Black	DC to 20 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None
PMM-616004	A	Grey	DC to 20 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None
PMM-616004RED	B	Red	DC to 20 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None
PMM-616005	A	Grey	DC to 20 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None
PMM-636001	A	Red	DC to 20 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None
PMM-636003	A	Grey	DC to 20 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None
PMM-636003RED	B	Red	DC to 20 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None
PMBP-530-1	A	Grey	DC to 5 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None
PMBP-530-2	A	Grey	DC to 5 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	+5 Vdc unfiltered	1.8W
PMME-5	A	Grey	DC to 20 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None
EIA-232/V.24							
PMMLA-1	B	Black	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	+5 Vdc unfiltered	1W
PMMLA-2	B	Black	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	+5 Vdc unfiltered	1W
PMML-1	B	Black	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	+5 Vdc unfiltered	1W
PMML-2	B	Black	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	+5 Vdc unfiltered	1W
PIMM-1	B	Black	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None
PMM-2	B	Black	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None
PMM-2 (R)	B	Red	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None
PIMMLA-1	B	Black	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	+5 Vdc unfiltered	1W
PMME-1	B	Black	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	None

PatchMate™
Specifications – Modules

Catalog Number	Key Type	Color	Data Rate	Dimensions	Weight	System Input Power	Power Consumption
EIA-232/V.24							
PIMMLA-2	B	Black	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	+5 Vdc unfiltered	1W
PMME-2	B	Black	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	NA
PMBP-1	B	Black	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	NA
PMBP-2	B	Black	DC to 19.2 K	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	+5 Vdc unfiltered	1.5W
V.35							
PMMLA-V35FF	B	Grey	DC to 64 K	5.25"x0.95"x9.6" (13.3x2.41x24.5cm)	9 oz (25 g)	+5 Vdc unfiltered	1W
PMMLA-V35	B	Grey	DC to 64 K	5.25"x0.95"x9.6" (13.3x2.41x24.5cm)	9 oz (25 g)	+5 Vdc unfiltered	1W
PMM-V35FF	B	Grey	DC to 64 K	5.25"x0.95"x9.6" (13.3x2.41x24.5cm)	9 oz (25 g)	None	NA
PMM-V35	B	Grey	DC to 64 K	5.25"x0.95"x9.6" (13.3x2.41x24.5cm)	9 oz (25 g)	None	NA
PIMMLA-V35	B	Grey	DC to 64 K	5.25"x0.95"x9.6" (13.3x2.41x24.5cm)	9 oz (25 g)	+5 Vdc unfiltered	1W
PMME-V35	B	Grey	DC to 64 K	5.25"x0.95"x9.6" (13.3x2.41x24.5cm)	9 oz (25 g)	None	NA

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PatchMate™
Specifications – Modules

Catalog Number	Key Type	Color	Data Rate	Dimensions (H x W x D)	Weight	System Input Power	Power Consumption
EIA-422/V.11(X.27)							
PIMML-B-1	B	Black	DC to 13 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	+5 Vdc unfiltered	1W
PIMML-B-2	B	Black	DC to 13 Mbps	5.25"x0.95"x9.6" (13.3x2.41x24.5cm)	8 oz (224 g)	+5 Vdc unfiltered	1W
PMM-B-2	B	Black	DC to 13 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	NA
PMM-616002	A	Red	DC to 13 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	+5 Vdc unfiltered	NA
PMME-B-1	B	Black	DC to 13 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	None	NA
PMME-B-2 (R)	B	Red	DC to 13 Mbps	5.25"x0.95"x9.6" (13.3x2.41x24.5cm)	8 oz (224 g)	None	NA
PMML-B-2	B	Black	DC to 13 Mbps	5.25"x0.95"x5.5" (13.3x2.41x14.0cm)	8 oz (224 g)	+5 Vdc unfiltered	1W

Specifications – Chassis

Catalog Number	Dimensions (H x W x D)	Weight	Required Power	Power Consumption
PMCH-1	5.25" x 19" x 9" (13.3 x 48.26 x 23.9 cm)	8.8 lbs (4.02 kg)	7 VAC @ 47-60 MHz	2.5W
PMCH-2	5.25" x 19" x 9" (13.3 x 48.26 x 23.9 cm)	8.2 lbs (4.0 kg)	None	NA
PMCH-2N	5.25" x 19" x 9" (13.3 x 48.26 x 23.9 cm)	8.2 lbs (4.0 kg)	None	NA
PMCH-6	5.25" x 19" x 9" (13.3 x 48.26 x 23.9 cm)	8.2 lbs (4.0 kg)	7 VAC @ 47-60 MHz	2.5W
PMCH-2-3	1.75" x 19" x 12.03" (4.45 x 48.26 x 30.5 cm)	7.49 lbs (4.5 g)	None	NA
PMCH-2-9	3.5" x 19" x 12.03" (8.89 x 48.26 x 30.5 cm)	1 lbs (4.5 g)	None	NA

Power Supplies

Catalog Number	Dimensions (H x W x D)	Weight	Required Power	Power Consumption
DMPS-5	3.3" x 2.7" x 2.2" (8.4 x 6.9 x 5.6 cm)	1.5 lb (.7 kg)	110 VAC @ 47-60 Hz 250 mA	25W
DMPS-11	3.3" x 2.7" x 2.2" (8.4 x 6.9 x 5.6 cm)	1.5 lb (.7 kg)	110 VAC @ 47-60 Hz 250 mA	25W
DMPS-5E	2.5" x 2.75" x 4.75" (5.71 x 7.0 x 12.0 cm)	2 lb (.9 kg)	110 VAC @ 47-63 Hz 125 mA	25W
DMPS-11E	2.5" x 2.75" x 4.75" (5.71 x 7.0 x 12.0 cm)	2 lb (.9 lb)	110 VAC @ 47-63 Hz 125 mA	25W
DMPS-548	2.5" x 2.75" x 4.75" (13.3 x 5.0 x 14.0 cm)	1.5 lb (.7 kg)	-48 Vdc @ .75 amps	25W

Catalog Number	Key Type	Color	Data Rate	Dimensions (H x W x D)	Weight	Required Power
DMBP-1	DM	Black	DC to 19.2 K	1.75"x19"x10" (4.4x48.3x25.5cm)	11 lbs (5 kg)	120 VAC @47-60 Hz

Assemblies

Catalog Number	Key Type	Color	Data Rate	Dimensions (H x W x D)	Weight	System Input Power	Power Consumption
PSA-02D	B	Black	DC to 19.2 K	7" x 19 x 11 (17.8 x 48.2 x 28 cm)	20 oz (9 kg)	+5 Vdc @ 5 amps +12 Vdc @ 1 amp	25W
PSA-04D	B	Black	DC to 19.2 K	7" x 19 x 11 (17.8 x 48.2 x 28 cm)	20 oz (9 kg)	+5 Vdc @ 5 amps +12 Vdc @ 1 amp	25W

Modules

Catalog Number	Key Type	Color	Data Rate	Dimensions (H x W x D)	Weight	System Input Power	Power Consumption
PSM-01	B	Black	DC to 19.2 K	7"x0.95"x10" (17.8x2.41x25.4cm)	1 lb (0.45 kg)	+5Vdc @ 200 mA +12Vdc @ 1 amp	1.5W
PSM-02	B	Black	DC to 19.2 K	7"x0.95"x10" (17.8x2.41x25.4cm)	1 lb (0.45 kg)	+5Vdc @ 200 mA +12Vdc @ 1 amp	1.2W
PSM-05A	B	Black	DC to 19.2 K	7"x0.95"x10" (17.8x2.41x25.4cm)	1 lb (0.45 kg)	+5Vdc @ 150 mA +12Vdc @ 50 mA	750 mW
PSM-07	B	Black	DC to 19.2 K	7"x0.95"x10" (17.8x2.41x25.4cm)	1 lb (0.45 kg)	+5Vdc @ 200 mA +12Vdc @ 1 amp	1.5W
PSM-08	B	Black	DC to 19.2 K	7"x0.95"x10" (17.8x2.41x25.4cm)	1 lb (0.45 kg)	None	NA
PSM-09	B	Black	None	7"x0.95"x10" (17.8x2.41x25.4cm)	.25 lb (0.12 kg)	None	NA
PSM-18	B	Black	DC to 19.2 K	7"x0.95"x10" (17.8x2.41x25.4cm)	1 lb (0.45 kg)	+5Vdc @ 200 mA +12Vdc @ 1 amp	1.5W
PSM-19	B	Black	DC to 19.2 K	7"x0.95"x10" (17.8x2.41x25.4cm)	1 lb (0.45 kg)	+5Vdc @ 200 mA +12Vdc @ 1 amp	1.5W
PSR-05	B	Black	DC to 19.2 K	7"x0.95"x10" (17.8x2.41x25.4cm)	1 lb (0.45 kg)	+5Vdc @ 150 mA +12Vdc @ 50 mA	750 mW
PSR-06A	B	Black	DC to 19.2 K	7"x0.95"x10" (17.8x2.41x25.4cm)	1 lb (0.45 kg)	+5Vdc @ 150 mA +12Vdc @ 50 mA	750 mW

PatchSwitch™
Specifications

RTA Chassis

Catalog Number	Dimensions (H x W x D)	Weight	Required Power	Power Consumption
RDC-01D	7" x 19" x 11" (17.8 x 48.26 x 28.0 cm)	11 lb (5 kg)	+5 Vdc @ 5 amps +12 Vdc @ 1 amp	750 mW
PSW-000003	3.75" x 3.5" x 6" (9.5 x 8.9 x 15.5 cm)	1.2 lb (.54 kg)	90-250 VAC @ 47-63 Hz .7 amps max	30W
DMPS-10	3.5" x 19" x 11.5" (8.89 x 48.26 x 29.21 cm)	12 lb (5.4 kg)	0-250 VAC @ 47-63 Hz .7 amps max	108W
DMPS-10EXP	3.75" x 4.25" x 10.13" (9.5 x 10.8 x 25.73 cm)	3 lb (1.35 kg)	0-250 VAC @ 47-63 Hz .7 amps max	27W

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