UTICOR

Power IPC Range

"Quality on Display"

aVG Automation

UTICOR EZAutomation

aC AUTOTECH CONTROLS

Proudly supported throughout SE Asia and Australasia by

balmoral technologies

Features:

- **Display Size: 15" TFT or 17" TFT**

- **resistive Touch Screen**

- **Intel Celeron or Pentium 4 Processor up to 3,06 GHz**

- **optional Slim Line CDRW / DVD Drive**

- **Can boot up from USB Port**

- **Several Frontplates available**

- **Rugged Housing, designed for industrial use**

- **Low Cost**

- **Depth only 135 mm (IPP-15..) or 140 mm (IPP-17..)**

IPP Panel - PC with 15" TFT Display and Stainless Steel Frontplate

UTICOR offers with the IPP Panel-PC a compact, powerful, low cost Panel - PC, utilizing a **Celeron or Pentium 4 Processor up to 3,06 GHZ.**

The PC is equiped with either a 2,5" 40 GB or 80 GB Hard Disk or a 3,5" 40 GB or 80 GB Hard Disk.

The System Memory can be expanded to 128, 256, 512 and 1024 MB.

Several Operating Systems, like Windows XP, Windows 2000 or Windows 98 can be installed.

The PC can be equiped with a Slim Line **CDRW / DVD Drive** and can be booted up from the USB Port. A Floppy Drive with USB Port can be connected to this Port as well.

A LAN Port, **four serial Ports** and two USB Ports take care of

the external interfacing.
An external Monitor can be connected to the VGA Port.

The IPP offers **2 free PCI Slots.**

The System is available with a black Panel Mounted, a Stainless Steel or a 19" Rack Mounted Front Bezel. The System offers further more a Touch Screen or a IP 65 Front with or without Anti Glare Glass.
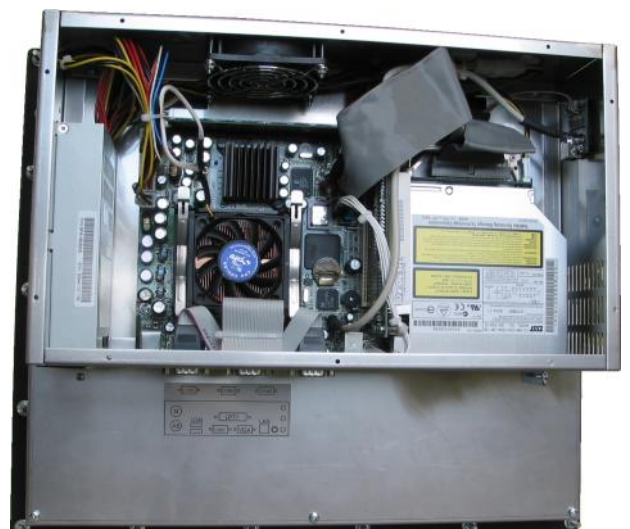
IPP
Panel - PC

Back IPP-15.. Panel - PC

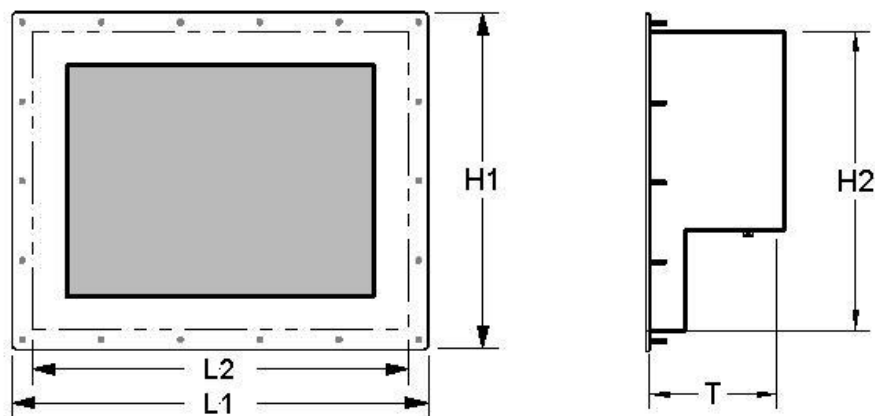**IPP Panel - PC with 17" TFT Display and black panel mounted Frontbezel**

Bottom IPP-15.. Panel - PC with CDRW Drive and 2 PCI Slots

Interior View IPP-17.. Panel - PC

Quality on Display

Mechanical Dimensions

Panel - PC with Standard or Stainless Steel Frontplate

PC-Type	L1	L2	H1	H2	T	Thickness Frontplate	Cutout Dimension
IPP - 15..	420	382	340	302	135	3	384 x 304
IPP - 17..	455	417	380	342	140	3	419 x 344

Panel - PC with 19" Rack Mounted Frontplate
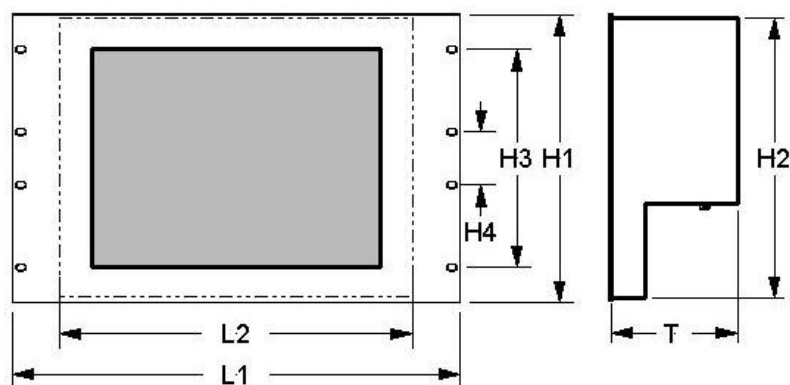
PC-Type	HE	L1	L2	H1	H2	H3	H4	T	Tickness Front
IPP - 15.	7 HE	482,6	382	310,2	302	235	57,4	135	3
IPP - 17.	8 HE	482,6	417	354,8	342	279,4	76,2	140	3

All Dimensions in mm
Subject to technical changes

IPP
Panel - PC
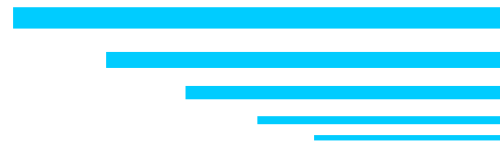
Specifications		
PC - Type	**IPP - 15C1 / IPP - 15P1**	**IPP - 17C1 / IPP - 17P1**
Display Size	15" TFT	17" TFT
Resolution	1024 x 768 Pixel	1280 x 1024 Pixel
Brightness (cd/m²)	430 cd/m²	250 cd/m²
TOUCH	resistive Touch Screen (optional)	
Processor Board	Industrial Mini ITX CPU Board	
Processor Type	Celeron or Pentium 4 up to 3,06 GHz	
Watchdog Timer	Generates System Reset, 256 levels	
System Memory	DDR RAM 128 MB up to 1 GB	
Hard Disk	40 GB or 80 GB Hard Disk 2,5" 40 GB or 80 GB Hard Disk 3,5"	
Floppy / CD ROM	optional Slim Line CDRW/DVD FDD using USB	
Mouse / Keyboard	PS2 / PS2	
LAN Port	10 BaseT / 100 BaseT RJ 45 with Control LEDs	
Serial Ports	4 x RS 232 COM Interface	
Parallel Port	LPT1 (SPP / EPP / ECP)	
USB Ports	2 Ports USB 2.0	
Expansion Slots	2 PCI Slots	
Operating System	Windows XP Pro / Windows 2000 / Windows 98	
Supply Voltage	90 to 230 VAC	
Power	ATX 180 VA	
Operating Temp.	0 to 50 °C	
Storage Temp.	- 20 to 60 °C	
Dimensions	Mechanical Dimensions on Page 3	
Depth	135 mm	140 mm
Weight	9,5 KG	10,7 KG

Subject to technical changes

Features:

- **Display Size: 8,4" TFT or 15" TFT**

- **Resolution: 1024 x 768 Pixel**

- **resistive Touch Screen**

- **Ultra Low Power Celeron M, 600 MHz or Pentium M, 1,5 GHz Processor**

- **Hard Disk or Flash Disk**

- **Can boot up from USB Port**

- **Several Frontplates available**

- **Rugged Housing, designed for industrial use**

- **Completely fanless System (Celeron M)**

- **Depth only 77 mm (IPP - 15M...) or 89 mm (IPP - 84M...)**

IPP - M Panel-PC with 15" TFT Display and VESA Mount Housing, Colour RAL 9010

UTICOR offers with the IPP - M Panel-PC a compact, powerful lows cost Panel-PC, utilizing an Ultra Low Power 600 MHz Celeron M or a 1,5 GHz Pentium M Processor.

IPP - M Panel-PC with 8,4" TFT Display and black Front Bezel

When the Celeron M Processor is mounted, the System will be completely fanless.

The PC is equiped with either a 2,5" 40 GB or 80 GB Hard Disk or with a Flash Disk with up to 4 GB Capacity. The Flash Disk can be mounted at the backside of the unit.

The System Memory can be expanded to 256, 512 and 1024 MB.

Several Operating Systems, like Windows-XP, Windows Vista or Linux can be installed.
The PC can be booted up from the USB Port.

A LAN, two serial and one USB Port take care of the external interfacing. An external Monitor can be connected to the VGA Port.

The PC is available with a black or Stainless Steel Panel Mounted Front Bezel, plus as an „Open-Frame" Model. The PC with 15" TFT Display can also be ordered with a VESA Mount Housing and with a 19" Rack Mounted Front Bezel.
The System offers further more a Touch Screen or a IP 65 Front with or without Anti Glare Glass.

The mounting depth for the PC with 15" TFT is 77 mm and for the PC with 8,4" TFT 89 mm.

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Quality on Display

IPP - M
Low Power Panel - PC

Models

Black Panel Mount Front Bezel, RAL 9005

„Open-Frame" Model

Stainless Steel Front Bezel

19" Rack Mount Front Bezel, Colour RAL 9006

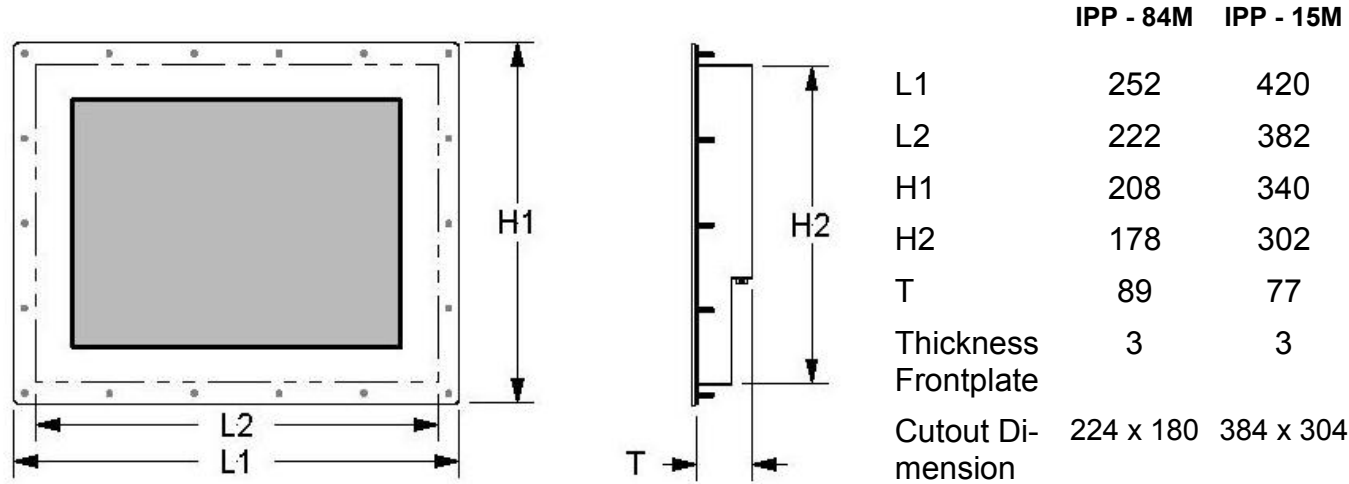**Back IPP-15M Panel - PC**

Back IPP-84M Panel - PC

Quality on Display

Mechanical Dimensions

Panel - PC with Standard or Stainless Steel Frontplate

	IPP - 84M	IPP - 15M
L1	252	420
L2	222	382
H1	208	340
H2	178	302
T	89	77
Thickness Frontplate	3	3
Cutout Dimension	224 x 180	384 x 304

Panel - PC with 19" Rack Mounted Frontplate

L1 = 482,6
L2 = 382
H1 = 310,2
H2 = 302
H3 = 235
H4 = 57,4
T = 77

Thickness Frontplate = 3

Panel - PC VESA Mount

L1 = 370
H1 = 290
T = 80
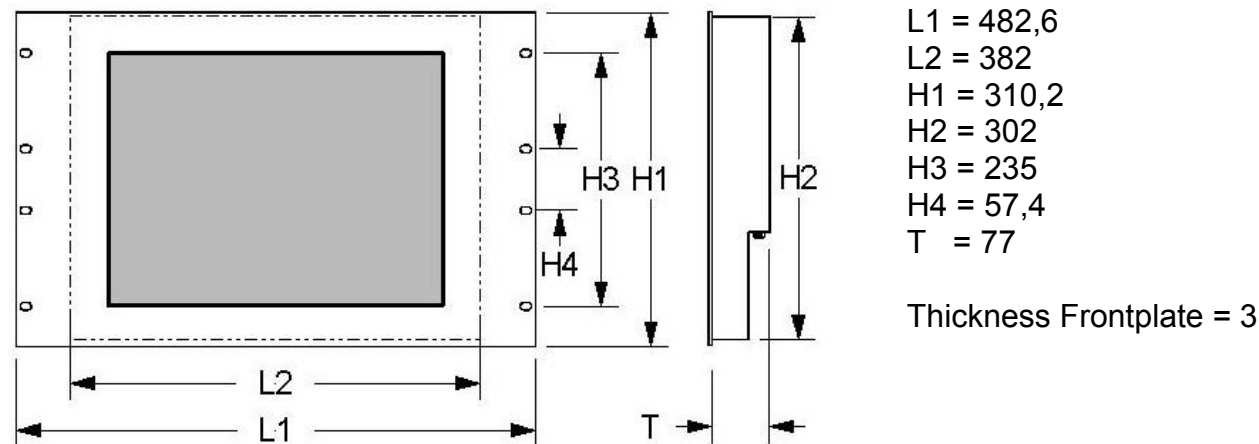
VESA Mount:
75 x 75
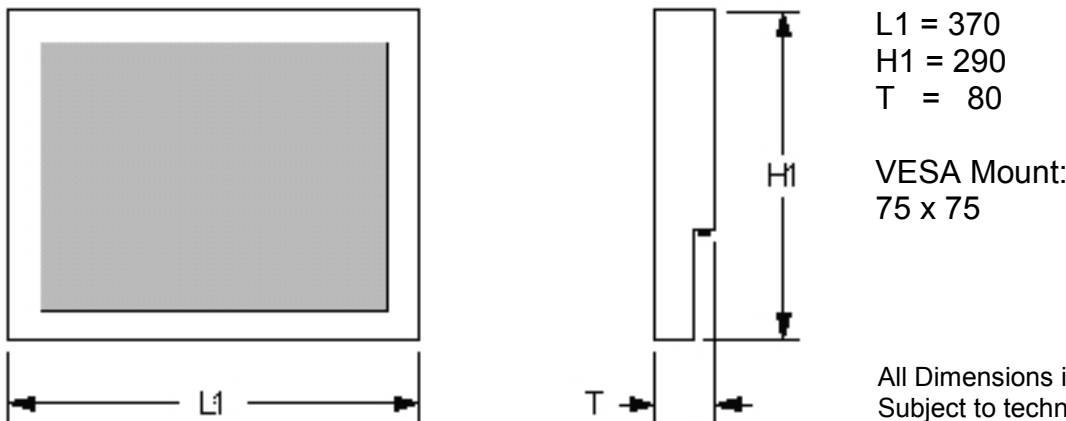
All Dimensions in mm
Subject to technical changes

IPP - M
Low Power Panel - PC

Specifications		
PC - Type	**IPP - 84CM / IPP - 84PM**	**IPP - 15CM / IPP - 15PM**
Display Size	8,4" TFT	15" TFT
Resolution	1024 x 768 Pixel	1024 x 768 Pixel
Brightness (cd/m²)	300 cd/m²	430 cd/m²
TOUCH	resistive Touch Screen (optional)	
Processor Board	Industrial embedded 3,5" CPU Board	
Processor Type	Intel Celeron M 600 MHz Low Power, fanless or Pentium M 1,5 GHz with fan	
Watchdog Timer	Generates System Reset, 256 levels	
System Memory	DDR RAM 256 MB up to 1024 MB	
Hard Disk / Flash Disk	40 GB or 80GB Hard Disk 2,5" Flash Disk up to 4 GB	
Floppy / CD ROM	CDRW or FDD external, using USB Port	
Mouse / Keyboard	PS2 / PS2 combined in one connector	
Ethernet Port	10 BaseT / 100 BaseT RJ 45 with Control LEDs	
Serial Ports	COM 1 = RS232 / COM 2 = RS232	
Parallel Port	LPT1 (SPP / EPP / ECP)	
USB Port	1 x USB2.0 Port	
Expansion Slot	1 x Mini-PCI Socket	
Operating System	Windows XP Pro / Windows Vista / Linux	
Supply Voltage	24 VDC	90 to 230 VAC, optional 24 VDC
Power	45 VA	60 VA
Operating Temp.	0 to 45 °C	
Storage Temp.	- 20 to 60 °C	
Dimensions	Standard Front: 252 x 208 mm Open Frame 222 x 178 mm	Standard Front: 420 x 340 mm / 19" Front 7 HE / VESA Mount 370 x 290 mm
Depth	89 mm	77 mm
Weight	3,0 KG	6,5 KG

Subject to technical changes

Features:

- **Display Size: 15" TFT**

- **resistive Touch Screen optional**

- **Intel Core 2 Duo, Pentium 4 or Celeron Processor**

- **Low Cost Model with AMD LX 800 Processor**

- **Can boot up from USB Port**

- **Available with one free PCI Slot**

- **Several Frontplates available**

- **Rugged Housing, designed for industrial use**

- **Low Cost**

- **Depth only 99 mm**

IPPL Panel - PC with 15" TFT Display and Stainless Steel Frontplate

UTICOR offers with the IPPL Panel-PC a compact, powerful, low cost Panel-PC, which can be obtained with 3 different Processorboards. An **Intel Core 2 Duo, a Celeron or a Pentium 4 Processor** can be mounted. In addition an AMD LX 800 Processor is available for this Panel-PC. This Sytem is without Processorfan.

Depending on the mounted Processorboard, the PC is equiped with either a 2,5" 80 GB or 160 GB SATA Hard Disk or a 3,5" 40 GB or 80 GB IDE Hard Disk.

UP to 3GB System memory is available. The maximum Size of the Memory depends on the mounted Processorboard.

The PC can be booted up from the USB Port. A Floppy drive with USB Port can be connected to the system as well.

The amount of available USB, LAN, serial and Printerports depends again of the mounted Processorboard. Exact Information is available on the backside of this brochure.

An additional Monitor can be connected to the VGA Port of the PC.

Der IPPL Panel-PC offers one PCI Slot. A unit without PCI Slot is also available.

The System is available with a black Panel Mounted, a Stainless Steel or a 19" Rack Mounted Front Bezel. The System offers further more a Touch Screen or a IP 65 Front with or without Anti Glare Glass.

IPPL
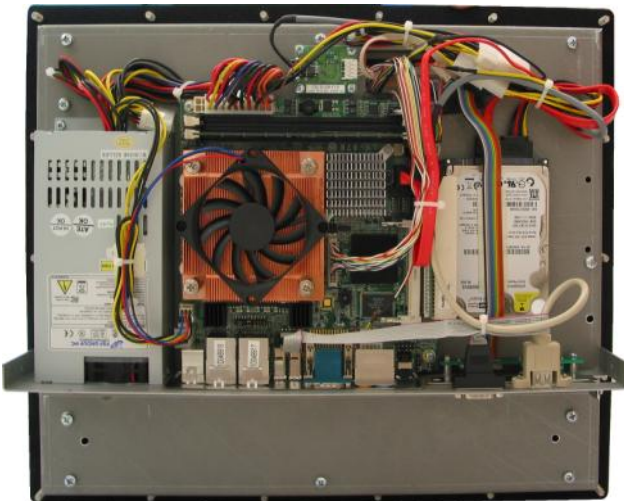## Panel - PC

Back IPPL Panel - PC

IPPL Panel - PC with 15" TFT Display and black panel mounted Frontbezel

Interior View IPPL Panel - PC

IPPL Panel - PC with 15" TFT Display and Stainless Steel Frontbezel

Bottom IPPL Panel - PC with one PCI Slot

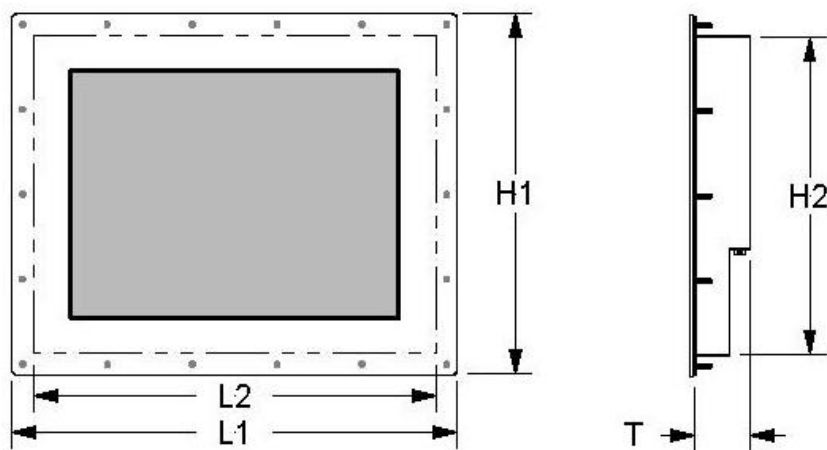**IPPL Panel - PC with 15" TFT Display and 19" Rack Mounted Frontbezel**

Quality on Display

UTICOR

Mechanical Dimensions

Panel - PC with Standard or Stainless Steel Frontplate

PC-Type	L1	L2	H1	H2	T	Thickness Frontplate	Cutout Dimension
IPPL - 15..	420	384	340	304	99	3	386 x 306

Panel - PC with 19" Rack Mounted Frontplate
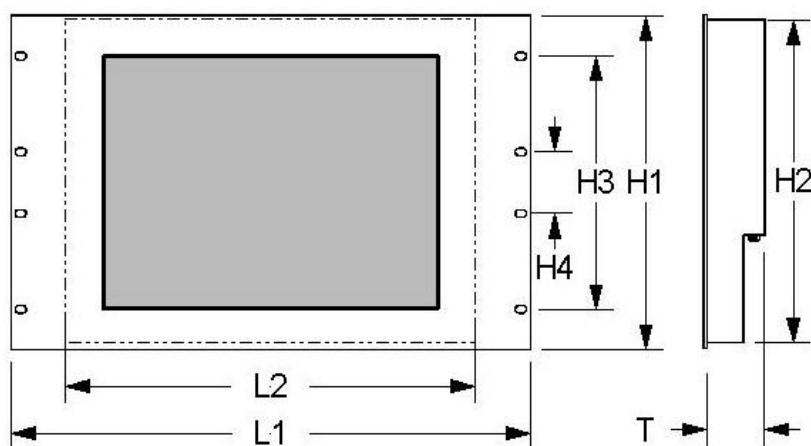
PC-Type	HE	L1	L2	H1	H2	H3	H4	T	Thickness Frontplate
IPPL-15	7 HE	482,6	384	310,2	304	235	57,4	99	3

All Dimensions in mm
Subject to technical changes

UTICOR

Quality on Display

IPPL
Panel - PC

Specifications					
PC - Type	IPPL-15A1	IPPL-15C1	IPPL-15P1	IPPL-15C2	IPPL-15D1
Display Size	15" TFT				
Resolution	1024 x 768 Pixel				
Brightness (cd/m²)	250 cd/m²	430 cd/m²			
TOUCH	Resistive Touch Screen (optional)				
Processor Board	Industrial Mini ITX CPU Board				
Processor Type	AMD LX800 500 MHz without Processorfan	Celeron 2,0GHz Socket 478 with Fan	P4 2,4GHz Socket 478 with Fan	Celeron 1,8 GHz Socket LGA 775 with Fan	Core 2 Duo 2x2,2Ghz Socket LGA 775 with Fan
Chip Set	AMD LX800 and CS5536	Intel 845GV and ICH4		Intel Q965 and ICH8DO	
Watchdog Timer	Generates System Reset, 256 levels				
System Memory	DDR RAM up to 1 GB			DDR2 RAM up to 3 GB	
Hard Disk	40 or 80 GB IDE HD 3,5"			80 or 160 GB SATA HD 2,5"	
Floppy / CD ROM	CDRW/DVDRW and FDD using USB				
Mouse / Keyboard	PS2 / PS2				
Ethernet Port	10 / 100 / 1000 BaseT RJ 45	10 / 100 Base T RJ 45		2 x 10 / 100 / 1000 Base T RJ 45	
Serial Ports	1 x RS 232 and 1 x RS232/422/485	1 or 3 x RS 232 (depends of the version)		1 x RS 232 and 1 x RS232/422/485	
Printer Port	LPT1 (SPP / EPP / ECP)			Using USB	
USB Ports	2 x USB 2.0	2 or 3 x USB 2.0 (depends of the version)		4 x USB 2.0	
PCI - Slot	0 or 1 Slot available				
Mini PCI Slot internal	1 Slot	No Slot		1 Slot	
Operating System	Windows XP Pro				
Supply Voltage	90 to 230 VAC				
Power	ATX 180 VA				
Operating Temp.	0 to 50 °C				
Storage Temp.	- 20 to 60 °C				
Dimensions	Mechanical Dimensions on Page 3				
Depth	99 mm				
Weight	8,0 KG				

Please ask for Processors with other Speed!   Subject to technical changes

Features:

- **Very compact housing for wall mounting**

- **Available with Celeron or Pentium 4 Processor up to 3,06 GHz**

- **System Memory expandable to 1GB**

- **3,5" or 2,5" Hard Disk, Capacity > 40 GB**

- **1 x LAN 10/100; 1 x VGA; 1 x LPT1; 1 x PS 2 Keyboard; 1 x PS 2 Mouse**

- **Available with 2 x RS232 and 4 x USB 2.0 or 4 x RS232 and 2 x USB 2.0 Ports**

- **Power Supply 90 - 240 VAC, 180 Watt**

- **Very compact housing, only: L x W x D = 232 x 230 x 110 mm**

IPX 0 Industrial PC for wall mounting

Interior View

UTICOR offers with the IPX 0 a very compact industrial PC which can be mounted in a control cabinet.
The PC utilizes an industrial Mini - ITX Mainboard with a Celeron or Pentium 4 Processor up to 3,06 GHz.
The chosen components guarantee a long system availabilty.
The PC is available with either 2 RS 232 and 4 USB 2.0 Ports or with 4 RS 232 and 2 USB 2.0 Ports.

Mass Storage devices like CDROM and Floppy Disk can be connected to the USB Ports.
In combination with our TFT Monitors, we offer a powerfull system with screen sizes from 10,4" up to 19".
Because the Screen is separated from the PC, we can realize a flexible modular system with an attractive price level.
Service and maintenance are also simplified.

UTICOR

Quality on Display

IPX - 0
Compact - PC

Specifications	
PC - Type	**IPX0 - C1 / IPX0 - P1**
CPU - Board	Industrial Mini ITX Mainboard
Processor - Type	Celeron or Pentium 4 up to 3,06 GHz
Chipset	Intel 845 GV and ICH4
Watchdog Timer	Generates System Reset, 256 Levels
Hardware Monitoring	Internal monitoring of CPU Temperature and Voltage
System Memory	DDR RAM 128 MB up to 1 GB
Hard Disk	40 GB or 80 GB 3,5" Hard Disk Optional 2,5" Hard Disk or IDE Flash Disk
Mass Storage	using USB Ports
Mouse / Keyboard	PS 2 / PS 2
VGA Interface	15 Pin Sub-D Connector, 64 MB shared Memory Monitor Resolution max. 2048 x 2048 Pixel
Ethernet Port	10 Base TX / 100 Base TX RJ 45 with Control LEDs
Serial Ports	2 x RS 232 or 4 x RS 232 (depending of the version)
Parallel Port	LPT1 (SPP / EPP / ECP)
USB Ports	2 x USB 2.0 or 4 x USB 2.0 (depending of the version)
Expansion Slots	no PCI Slots
Audio / Video	Audio Controller with Line-In, Line-Out, Mic-In Video with Composite and S-Video Output
Supply Voltage	90 to 230 VAC
Power	ATX 180 Watt
Operating Temperature	0 to 50 °C
Storage Temperature	-20 to 60 °C
Rel. Humidity	10 to 90 % non condensing

Mechanical Dimensions
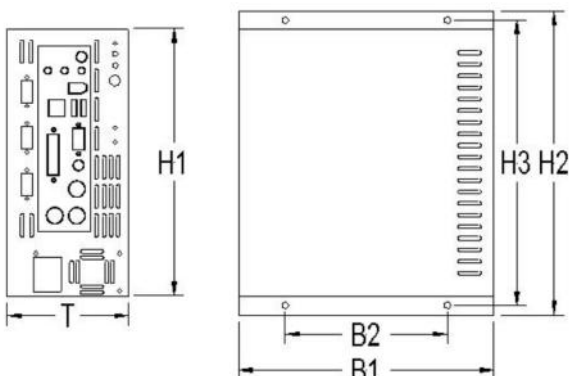
H1 = 232 mm
H2 = 262 mm
H3 = 248 mm

B1 = 230 mm
B2 = 120 mm
 T = 110 mm

all Dimensions in mm
Subject to technical changes

Features:

- **Compact and powerful**

- **Available with AMD, Celeron or Pentium 4 Processor up to 3,06 GHz**

- **System Memory expandable to 1GB**

- **Available with CDRW or DVDRW Drive**

- **Hard Disk > 40 GB**

- **2 USB; 1 LAN 10/100; 1 VGA; 1 LPT1; 1 RS 232; 1 Firewire**

- **Also available with 4 RS 232 Ports**

- **1 or 2 free PCI Slots**

- **Power Supply 90 - 240 VAC, 180 Watt**

- **Mounting Depth 105, 165 or 240 mm (depending on model)**

IPX1 Industrial PC for wall mounting

UTICOR offers with the IPX PC an industrial PC which can be mounted in a control cabinet. The PC utilizes an industrial Mini ITX Mainboard with an AMD 500 MHz Processor, a Celeron Processor or a Pentium 4 Processor up to 3,06 GHz. The chosen components guarantee a long system availability. The PC can be ordered with two different housings.

The IPX 1 has one free PCI Slot and housing dimensions of 240 x 275 x 165 mm, the IPX 2 has two free PCI Slots and housing dimensions of 382 x 222 x 105 mm. The IPX 1 is also available with 4 RS 232 Ports. In this case the Floppy Drive is omitted. The IPX 1 and IPX 2 utilize both an internal CDROM Drive.

In combination with our TFT Monitors, we offer a powerful system with screen sizes from 10,4" up to 19". Because the screen is separated from the PC, we can realize a flexible modular system with an attractive price level. Service and maintenance are also simplified.

IPX
Industrial - PC

IPX2 Industrial PC with 2 free PCI Slots and a Slime-Line CDRW Drive

IPX1 Industrial PC with 1 free PCI Slot, CDROM and Floppy Drive, Mounting studs on the back of the unit
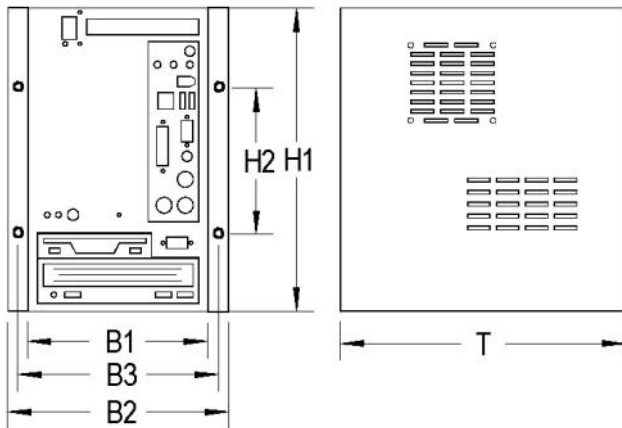

IPX1 Industrial PC with side mounting

Interior View IPX1 Industrial PC

Quality on Display

Mechanical Dimensions

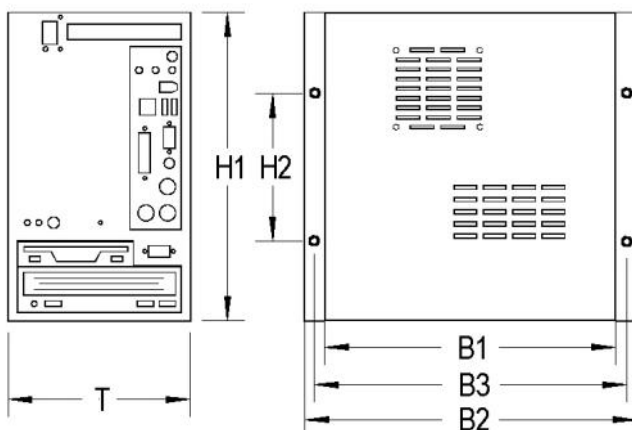### IPX1 - PC with backside mounting

H1 = 275 mm
H2 = 130 mm

B1 = 165 mm
B2 = 200 mm
B3 = 185 mm

T = 240 mm

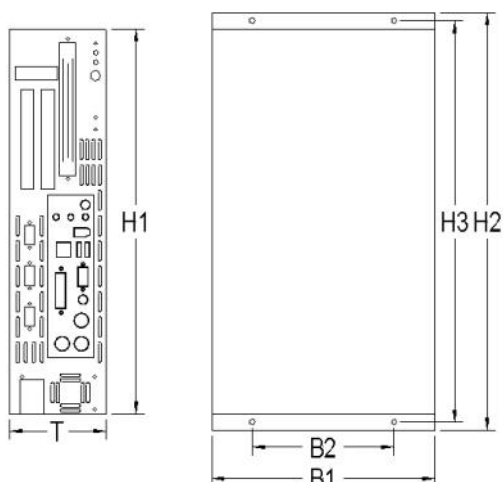### IPX 1 - PC with side mounting

H1 = 275 mm
H2 = 130 mm

B1 = 240 mm
B2 = 275 mm
B3 = 260 mm

T = 165 mm

IPX 2 - PC

H1 = 382 mm
H2 = 412 mm
H3 = 398 mm

B1 = 222 mm
B2 = 140 mm

T = 105 mm

All Dimensions in mm
Subject to technical changes

IPX
Industrial - PC

Specifications			
PC - Type	IPX1 - A1	IPX1 - C1 / IPX1 - P1	IPX2 - C1 / IPX2 - P1
CPU - Board	Industrial Mini ITX Mainboard		
Processor - Type	AMD LX 800, 500 MHz	Celeron or Pentium 4 up to 3,06 GHz	
Chipset	AMD LX 800 + CS5536	Intel 845 GV + ICH4	
Watchdog Timer	Generates System Reset, 256 Levels		
Hardware Monitoring	-	Internal monitoring of CPU Temperature and Voltage	
System Memory	DDR RAM 128 MB up to 1 GB		
Hard Disk	40 GB or 80 GB 3,5" Hard Disk, Optional 2,5" Hard Disk or IDE Flash Disk		
Mass Storage	CDRW / DVDRW FDD using USB	FDD CDRW / DVDRW	Slime Line DVDRW FDD using USB
Mouse / Keyboard	PS 2 / PS 2		
VGA Interface	15 Pin Sub-D, 256 MB shared Memory	15 Pin Sub-D, 64 MB shared Memory Monitor Resolution max. 2048 x 2048 Pixel	
Ethernet Port	1 x 10 / 100 / 1000 Base T RJ 45	1 x 10 Base TX / 100 Base TX RJ 45 with control LEDs	
Serial Ports	1 x RS 232 or 1 x RS232/422/485	1 x RS 232 Optional 4 x RS 232	4 x RS 232
Parallel Port	LPT1 (SPP / EPP / ECP)		
USB Ports	2 Ports USB 2.0	2 Ports USB 2.0	
Firewire	IEE 1394 Firewire		-
Expansion Slots	1 PCI Slot	1 PCI Slot	2 PCI Slots
Audio / Video	Audio with Line-In, Line-Out, Mic-In	Audio Controller with Line-In, Line-Out, Mic-In Video with Composite and S-Video Output	
Supply Voltage	90 to 230 VAC		
Power	ATX 180 Watt		
Dimensions (WxHxD)	240 x 275 x 165 mm		382 x 222 x 105 mm
Mounting Depth	165 or 240 mm depending on mounting of the PC		105 mm
Operating Temperature	0 to 50 °C		
Storage Temperature	-20 to 60 °C		
Rel. Humidity	10 to 90 % non condensing		

Subject to technical changes

UTICOR

Features:

- **Stable stainless steel back cover with Power Coated, Stainless Steel, or 19" Front Bezel**

- **Analogue resistive Touch optional**

- **Some monitors are also available with capacitive or SAW Touch**

- **IP 65 front plate with normal or anti glare Protective Glass**

- **Built using components made by large, world wide known companies for continuous support**

- **Customized solutions possible**

- **High Specifications at Low Costs**

- **Long Availability**

19" TFT Monitor with Stainless Steel Front Bezel

UTICOR offers a range of robust industrial panel mount monitors with a choise of different front bezel solutions. It is also possible to obtain customised Front plates and monitors which are mounted in a housing. Furthermore the 15" Monitor ist availabe in a compact housing for VESA-Mount applications.

UTICOR uses for their monitors Displays from world wide known Companies, so we can be sure that the display we are currently using has the same specifications like Contrast, Brightness and Viewing Angle as the display we were using six months ago or will be using in 3 months.

The monitors with 12,1" and 19" Display offer standard a VGA, DVI, S-Video and Composite Video input. The 15" Monitor can be ordered optionally with S-Video and Composite Video Input. The 10,4" Monitor offers a VGA and DVI Input.

All monitors can be supplied with an analog resistive Touch Screen. The touch controller offers either a RS 232 or USB Interface for communications. Some monitors can be supplied with a capacitive or SAW (Surface Acoustic Wave) Touch. In cases the monitor is supplied without a touch screen, the Display is protected with a glass cover with normal, chemical or optical anti glare glass.

TFT
Industrial Monitors

**15" TFT Monitor, VESA - Mount,
Colour RAL 9010**

**12,1" TFT Monitor with power coated Front
Bezel, Colour RAL 9005 (black)**

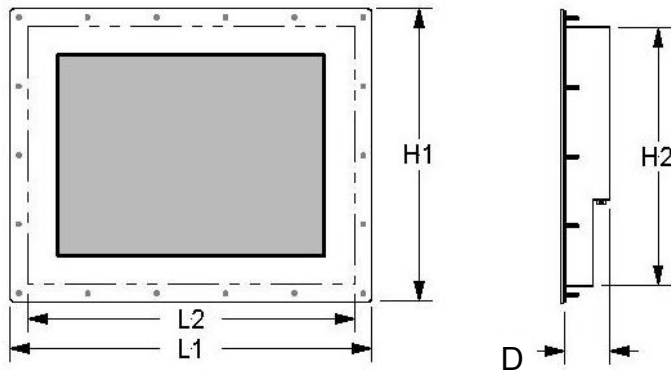**15" TFT Monitor with 19" Front Plate
Colour RAL 9006**

**15" TFT Monitor as „Open-Frame"
Version**

**Back Cover of the 17" TFT Monitor**

Quality on Display

UTICOR

Mechanical Dimensions

Monitors with power coated or Stainless Steel Front Bezel

Monitor-Type	L1	L2	H1	H2	D	thickness front plate	Cut-Out Dimensions
10" TFT	286	256	235	205	50	3	258 x 207
12" TFT	348	314	280	246	55	3	316 x 248
15" TFT	420	382	340	302	60	3	384 x 304
17" TFT	455	417	380	342	60	3	419 x 344
19" TFT	476	438	410	362	70	3	440 x 364

Monitors with 19" Front Plate
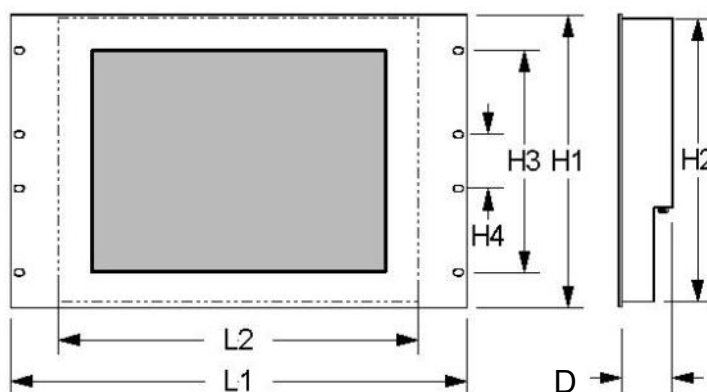
Monitor-Type	HE	L1	L2	H1	H2	H3	H4	D	thickness front plate
12" TFT	6 HE	482,6	314	265,9	246	190,5	76,2	55	3
15" TFT	7 HE	482,6	382	310,2	302	235	57,4	60	3
17" TFT	8 HE	482,6	417	354,8	342	279,4	76,2	60	3
19" TFT	9 HE	482,6	438	399,2	362	323,8	120,6	70	3

All Dimensions in mm, subject to technical changes

TFT
Industrial Monitors

Specifications					
LCD - Type	**10,4" TFT**	**12,1" TFT**	**15" TFT**	**17" TFT**	**19" TFT**
Resolution (Pixel)	800 x 600	800 x 600	1024 x 768	1280 x 1024	1280 x 1024
Active Area (mm)	211,2 x 158,4	246,0 x 184,5	304,1 x 228,1	337,9 x 270,3	376,3 x 301,1
Pixel Pitch (mm)	0,264 x 0,264	0,3075x0,3075	0,297 x 0,297	0,264 x 0,264	0,294 x 0,294
Brightness (cd / m²)	250	400	430	300	250
Contrast	400 : 1	500 : 1	400 : 1	700 : 1	1000 : 1
Response TR/TF (msec.)	6 / 19	10 / 30	5 / 20	2 / 6	13 / 7
Colours	262144	262144	16,2 Mio	16,2 Mio	16,7 Mio
Viewing Angle Horizontal Vertikal	130 Degrees 110 Degrees	130 Degrees 120 Degrees	140 Degrees 110 Degrees	150 Degrees 135 Degrees	170 Degrees 170 Degrees
Life Time Back Lights (Half Life)	25.000 Hours	50.000 Hours	35.000 Hours	50.000 Hours	50.000 Hours
Touch (Optional)	Analogue resistive, capacitive or SAW (Surface Acoustic Wave) Touch with RS 232 or USB Interface				
VGA Interface	SVGA	SVGA	XGA	SXGA	SXGA
DVI Interface	Standard	Standard	—	—	Standard
Video Input S-Video and Composite Video	—	Standard	Optional	—	Standard
OSD - Menue	Yes				
Supply Voltage	ext. PS 100-240 VAC	ext. PS 100-240 VAC optional 24VDC	int. or ext. PS 100-240 VAC optional 24 VDC	int. or ext. PS 100-240 VAC optional 24 VDC	int. or ext. PS 100-240 VAC optional 24 VDC
Power Consumption	15 VA	25 VA	30 VA	40 VA	70 VA
Operating Temp.	0 to 50 °C	0 to 60 °C	0 to 50 °C		
Storage Temp.	-20 to 60 °C	-25 to 70 °C	-25 to 60 °C		
Front Bezel	Black power coated Front Bezel with mounting studs Stainless Steel Front Bezel with mounting studs 19" Front Plate, Colour RAL 9006				
Protection Class	IP 65				
VESA - Mounting	—	—	Optional	—	—
Weight	3,0 KG	4,5 KG	6,0 KG	7,5 KG	9,0 KG

Subject to technical changes