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When It's Time to Network

# Product Selection Guide

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v. 10.1

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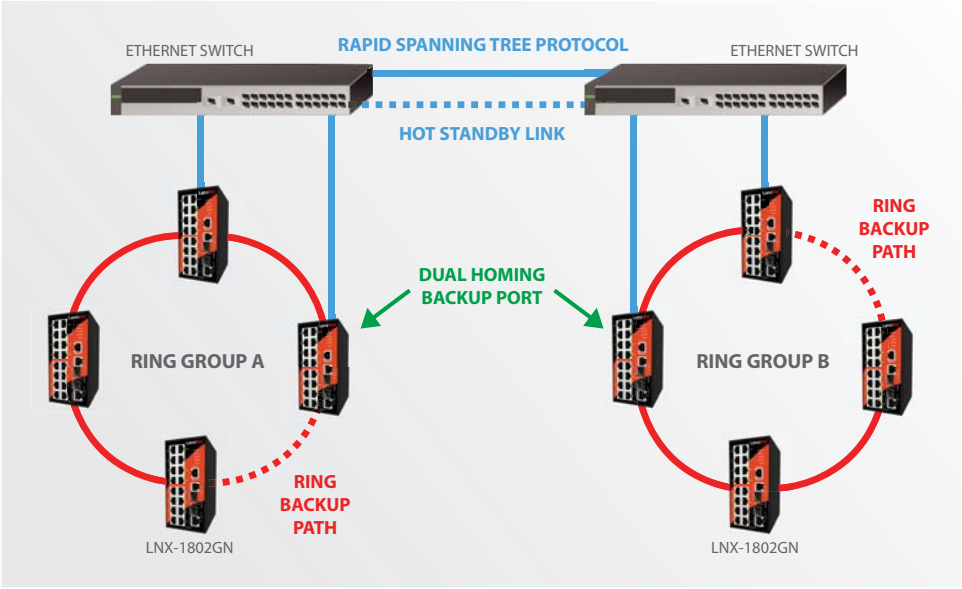
# Industrial Ethernet Switches - Managed

| Model | | LNX-500W | LNX-501W | LNX-800N (-T) | LNX-602N-T | LNX-802N (-T) | LNX-1002GN (-T) | LNX-804GN (-T) | LNX-1802GN (-T) | LNX-2602GN-T |
|---|---|---|---|---|---|---|---|---|---|---|
| Image | |  |  |  |  |  |  |  |  |  |
| No. of Ports | TX | 5 | 4 | 8 | 4 | 6 | 8 | 4 | 16 | 24 |
| | FX | - | 1 | - | 2 | 2 | 2 x SFP Combo | 4 x SFP Combo | 2 x SFP Combo | 2 x SFP Combo |
| Speed | TX | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps<br>10/100/1000Mbps | 10/100/1000Mbps | 10/100Mbps<br>10/100/1000Mbps | 10/100Mbps<br>10/100/1000Mbps |
| | FX | - | 100Mbps | - | 100Mbps | 100Mbps | 1000Mbps | 1000Mbps | 1000Mbps | 1000Mbps |
| Fiber Type | | - | Mulit-Mode/<br>Single-Mode | - | Mulit-Mode/<br>Single-Mode | Mulit-Mode/<br>Single-Mode | *See SFP Spec. | *See SFP Spec. | *See SFP Spec. | *See SFP Spec. |
| Fiber Distance | | - | 2 Km / 30+ Km | - | 2 Km / 30+ Km | 2 Km / 30+ Km | *See SFP Spec. | *See SFP Spec. | *See SFP Spec. | *See SFP Spec. |
| Operating Temperature | STD. | -10°C ~ 70°C | -10°C ~ 70°C | -10°C ~ 70°C | - | -10°C ~ 70°C | -10°C ~ 70°C | -10°C ~ 70°C | -10°C ~ 70°C | - |
| | EOT | - | - | -40°C ~ 80°C | -40°C ~ 75°C | -40°C ~ 80°C | -40°C ~ 75°C | -40°C ~ 75°C | -40°C ~ 75°C | -40°C ~ 75°C |
| Ring Redundancy | | < 300 ms | < 300 ms | < 300 ms | < 10ms | < 300 ms | < 20 ms | < 20 ms | < 20 ms | < 10 ms |
| SNMP MIB/Trap | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| QoS, IEEE 802.1p | | Yes | Yes | Yes | - | Yes | Yes | Yes | Yes | Yes |
| IGMP Snooping | | Yes | Yes | Yes | - | Yes | Yes | Yes | Yes | Yes |
| VLAN & 802.1Q | | Yes | Yes | Yes | - | Yes | Yes + GVRP | Yes + GVRP | Yes + GVRP | Yes + Q-in-Q |
| Port Trunking & LACP | | - | - | - | - | - | Yes | Yes | Yes | Yes |
| Approvals | | UL, CE, FCC | UL, CE, FCC | UL, CE, FCC | FCC | UL, CE, FCC | UL, CE, FCC | UL CID2, CE, FCC | UL CID2, CE, FCC | FCC |

# Dual Homing Application




## Featured Product

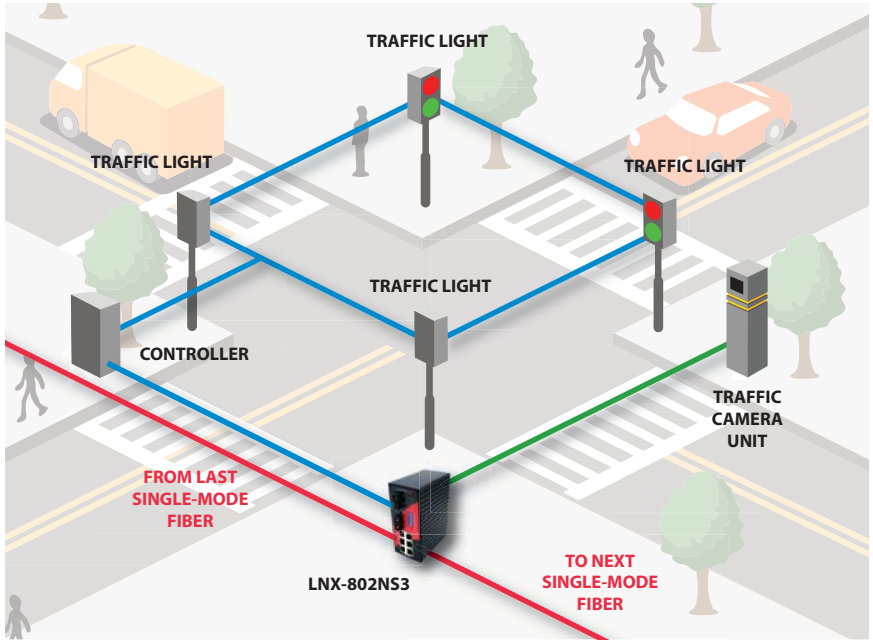
LNX-1802GN
16-Port 10/100TX + 2-Port 10/100/1000TX SFP Combo
SNMP Managed Industrial Ethernet Switch

## Dual Homing Function

The Dual Homing Function helps prevent connection loss between Ethernet Redundant Ring Groups and upper level/core switches. Two ports would be assigned to be the Dual Homing backup ports in a Ring Group. Each Redundant Ring Group only has one Dual Homing port. The Dual Homing Function only works when the Redundant Ring Function is active.

**Note:** In a Dual Homing application architecture, the upper level switches need to have Rapid Spanning Tree Protocol enabled.

# ITS Traffic Application




**Featured Product**

LNX-802NS3

Industrial SNMP Managed Ethernet Switch w/ 2 Fiber Ports (Single-Mode 30Km)

**Application Summary**

The diagram provided illustrates how the LNX-802NS3 Industrial SNMP Managed Ethernet Switch can be used in a ITS Traffic Application.

The LNX-802NS3 can be used in a Traffic Light/Traffice Camera scenario. The Traffic Light Controller Box and Cameras would connect to the LNX-802NS3 and the LNX-802NS3 would then utilize it's Fiber Ports to connect to other LNX-802NS3 switches controlling other interesections.

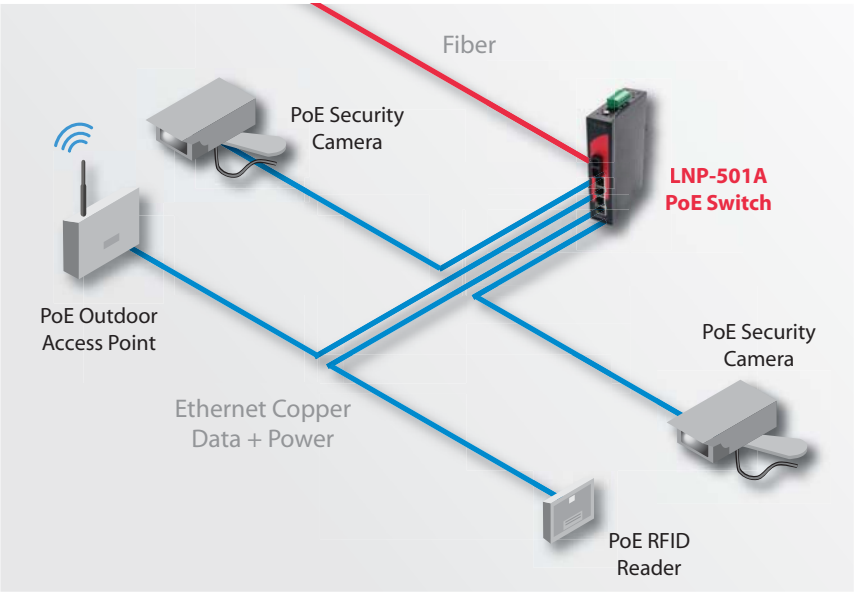
# Industrial Ethernet Switches - Unmanaged

| Model | | LNX-500A | LNX-501A (-T) | LNX-602A (-T) | LNX-800A (-T) | LNX-500AG (-T) | LNX-501AG-SFP | LNX-800AG (-T) | LNX-1002G (-T) | LNX-1802G (-T) |
|---|---|---|---|---|---|---|---|---|---|---|
| Image | |  |  |  |  |  |  |  |  |  |
| No. of Ports | TX | 5 | 4 | 4 | 8 | 5 | 4 | 5 | 8 | 16 |
| | FX | - | 1 | 2 | - | - | 1 x SFP | - | 2 x SFP Combo | 2 x SFP Combo |
| Speed | TX | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100/1000Mbps | 10/100/1000Mbps | 10/100/1000Mbps | 10/100Mbps<br>10/100/1000Mbps | 10/100Mbps<br>10/100/1000Mbps |
| | FX | - | 100Mbps | 100Mbps | - | - | 1000Mbps | - | 1000Mbps | 1000Mbps |
| Fiber Type | | - | Multi-Mode/<br>Single-Mode | Multi-Mode/<br>Single-Mode | - | - | *See SFP Spec. | - | *See SFP Spec. | *See SFP Spec. |
| Fiber Distance | | - | 2 Km / 30+ Km | 2 Km / 30+ Km | - | - | *See SFP Spec. | - | *See SFP Spec. | *See SFP Spec. |
| Operating Temperature | STD. | -10ºC ~ 70ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC |
| | EOT | - | -40ºC ~ 80ºC | -40ºC ~ 80ºC | -40ºC ~ 80ºC | -40ºC ~ 75ºC | - | -40ºC ~ 75ºC | -40ºC ~ 75ºC | -40ºC ~ 75ºC |
| Approvals | | UL CID2, CE, FCC | UL CID2, CE, FCC | UL CID2, CE, FCC | UL CID2, CE, FCC | UL, CE, FCC | UL CID2, CE, FCC | UL CID2, CE, FCC | UL, CE, FCC | UL, CE, FCC |

# Industrial Ethernet Switches - Power-over-Ethernet (P.o.E.)

| Model | | LNP-500A (-T) | LNP-500A-24 (-T) | LNP-501A (-T) | LNP-600N | LNP-602N | LNP-1002G (-T) | LNP-1002GN (-T) | LNP-101AG-T |
|---|---|---|---|---|---|---|---|---|---|
| Image | |  |  |  |  |  |  |  |  |
| Type | | PoE Switch | PoE Switch | PoE Switch | PoE Switch | PoE Switch | PoE Switch | PoE Switch | PoE Splitter |
| No. of Ports | TX | 5 | 5 | 4 | 6 | 4 | 8 | 8 | - |
| | FX | - | - | 1 | - | 2 | 2 x SFP Combo | 2 x SFP Combo | - |
| Speed | TX | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps | 10/100Mbps<br>10/100/1000Mbps | 10/100Mbps<br>10/100/1000Mbps | 10/100/1000T |
| | FX | - | - | 100Mbps | - | 100Mbps | 1000Mbps | 1000Mbps | - |
| Fiber Type | | - | - | Multi-Mode/<br>Single-Mode | - | Multi-Mode/<br>Single-Mode | *See SFP Spec. | *See SFP Spec. | - |
| Fiber Distance | | - | - | 2 Km / 30+ Km | - | 2 Km / 30+ Km | *See SFP Spec. | *See SFP Spec. | - |
| Management | | - | - | - | Refer to LNX-602N-T | Refer to LNX-602N-T | Refer to LNX-1002G | Refer to LNX-1002GN | - |
| Power Input | | DC 48V | DC 24 ~ 48V | DC 48V | DC 48V | DC 48V | DC 48V | DC 48V | DC 44 ~ 57V |
| Power over Ethernet | | 4 PoE Ports | 4 PoE Ports | 4 PoE Ports | 4 PoE Ports with PSE | 4 PoE Ports with PSE | 8 PoE Ports with PSE | 8 PoE Ports with PSE | PoE Splitter |
| Operating Temperature | STD. | -10ºC ~ 70ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC | -40ºC ~ 70ºC | -40ºC ~ 70ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC | - |
| | EOT | -40ºC ~ 80ºC | -40ºC ~ 80ºC | -40ºC ~ 80ºC | - | - | -40ºC ~ 75ºC | -40ºC ~ 75ºC | -40ºC ~ 75ºC |
| Approvals | | UL, CE, FCC | UL CID2 (-T), UL-508,<br>CE, FCC | UL, CE, FCC | FCC | FCC | UL, CE, FCC | UL, CE, FCC | UL, CE, FCC |

# Power over Ethernet Security Application




**Featured Product**

LNP-501A

Industrial 5-port Ethernet Switch with 4 x 10/100BaseTX PoE and 1 x 100BaseFX

**Application Summary**

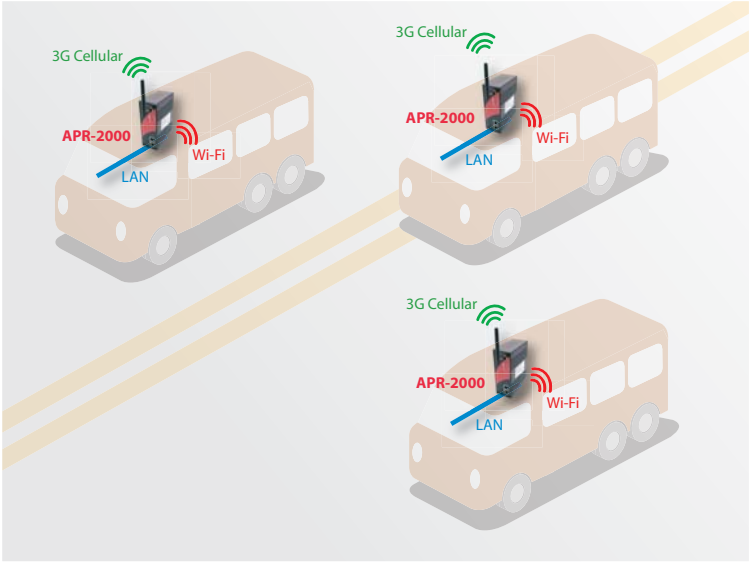
The diagram illustrates how the Lanolinx LNP-501A Industrial Fiber Power over Ethernet (PoE) Switch can be utilized to connect multiple Power over Ethernet (PoE) devices into one switch.

A user can connect up to 4 IP based PoE devices, e.g. Secuirty Camera, Outdoor Access Points, RFID Readers, etc..., into the LNP-501A's Ethernet ports. Data is then fed through Fiber to the desired destination.

## Access Points / Routers

| Model | | APN-200(P) (-T) | APN-200A (-P) (-T) | APR-2000(P) (-T) | APX-3000 |
|---|---|---|---|---|---|
| Image | |  |  |  |  |
| Network Interface | | 10/100Mbps Fast Ethernet | 10/100Mbps Fast Ethernet | 10/100Mbps Fast Ethernet | 10/100Mbps Fast Ethernet |
| Connector | | RJ-45 | RJ-45 | RJ-45 + USB Host Port | RJ-45 |
| Wireless (Wi-Fi) | | IEEE 802.11b/g Compliant | IEEE 802.11a/b/g Compliant | IEEE 802.11b/g Compliant | IEEE 802.11b/g Compliant |
| Transmit Rate | | Up to 54 Mbps | Up to 54 Mbps | Up to 54 Mbps | Up to 54 Mbps |
| WLAN Operating Mode | | Access Point / Bridge / Repeater | Access Point / Bridge / Repeater | Access Point / VPN / Router | Access Point / Bridge / Repeater |
| Router Mode Functions | | - | - | Static/Dynamic/PPPoE/Modem (56K/ GPRSG/3G/3.5G Modem) Dial-up | - |
| Antenna Connector | | Reverse SMA | Reverse SMA | Reverse SMA | N-Type Connector for External Antenna |
| Radio Frequency | | DSSS | DSSS | DSSS | DSSS |
| Encryption Security | | WEP, WPA/WPA2 (TKIP AES), WPA/WPA2-PSK (TKIP, AES), 802.1x, RADIUS | WEP, WPA/WPA2 (TKIP AES), WPA/WPA2-PSK (TKIP, AES), 802.1x, RADIUS | WEP, WPA/WPA2 (TKIP AES), WPA/WPA2-PSK (TKIP, AES), 802.1x, RADIUS | 64/128 bit WEP, WPA, WPA2 |
| Protection | | Built-in 1.5KV Magnetic Isolation | Built-in 1.5KV Magnetic Isolation | Built-in 1.5KV Magnetic Isolation | - |
| Power over Ethernet | | IEEE 802.3af (APN-200P(-T) Only) | IEEE 802.3af (APN-200A-P(-T) Only) | IEEE 802.3af (APN-200P(-T) Only) | IEEE 802.3af |
| Operating Temperature | STD. | -10ºC ~ 60ºC | -10ºC ~ 60ºC | -10ºC ~ 60ºC | -20ºC ~ 70ºC |
| | EOT | -35ºC~75ºC | -35ºC~75ºC | -35ºC~75ºC | - |
| Mechanical | | Industrial | Industrial | Industrial | Outdoor IP-67 Rated |

## Fleet Management Application




**Featured Product**

APR-2000
Industrial AP/VPN/Router w/ 3.5 G Cellular

**Application Summary**

The diagram provided illustrates how the APR-2000 Industrials AP/VPN/Router w/3.5G Cellular can be used in a Fleet Management application.

The APR-2000 can be accessed via LAN or WAN coonection. Ethernet devices can then be easily connected via the LAN port.

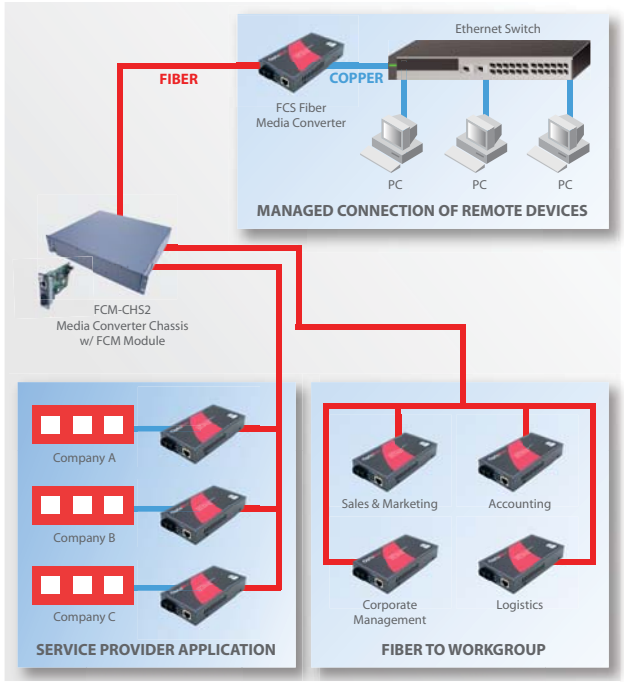
# Media Converters - Managed

| Model | | FCM-2312Sx (-S*) | FCM-3312SC (-S*) | FCS-2312Sx (-S*) | FCS-3312SC (-S*) | FCN-2112Sx (-S*) | FCN-3112SC (-S*) | FCN-3112SFP |
|---|---|---|---|---|---|---|---|---|
| Image | |  |  |  |  |  |  |  |
| Speed | TX | 10/100Mbps | 10/100/1000Mbps | 10/100Mbps | 10/100/1000Mbps | 10/100Mbps | 10/100/1000Mbps | 10/100/1000Mbps |
| | FX | 100Mbps | 1000Mbps | 100Mbps | 1000Mbps | 100Mbps | 1000Mbps | 1000Mbps |
| Wavelength | | 1310 nm | 850 nm / 1310 nm | 1310 nm | 850 nm / 1310 nm | 1310 nm | 850 nm / 1310 nm | *See SFP Specifications |
| Fiber Type | | Multi-Mode/ Single-Mode | Multi-Mode/ Single-Mode | Multi-Mode/ Single-Mode | Multi-Mode/ Single-Mode | Multi-Mode/ Single-Mode | Multi-Mode/ Single-Mode | *See SFP Specifications |
| Fiber Distance | | 2 Km / 30+ Km | 550 m / 10+ Km | 2 Km / 30+ Km | 550 m / 10+ Km | 2 Km / 30+ Km | 550 m / 10+ Km | *See SFP Specifications |
| Connector | TX | RJ-45 | RJ-45 | RJ-45 | RJ-45 | RJ-45 | RJ-45 | RJ-45 |
| | FX | SC or ST | SC | SC or ST | SC | SC or ST | SC | LC |
| Mechanical | | Slide-In | Slide-In | IN-BAND | IN-BAND | Standalone | Standalone | Standalone |
| Approvals | | CE, FCC | CE, FCC | CE, FCC | CE, FCC | CE, FCC | CE, FCC | CE, FCC |

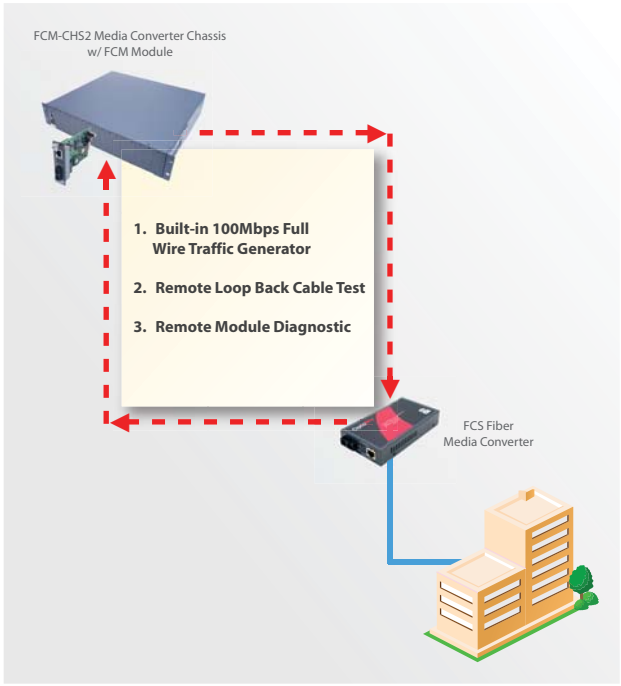
# Management Chassis

| Model | | FCM-CHS2 |
|---|---|---|
| Image | |  |
| Management Protocol | | SNMP, Console, Web |
| Management Interface | | DB-9 (DTE) and RJ-45 (10/100BaseTX) |
| CPU | | ARM7 with 2MB Flash |
| No. of Module Slots | | 16 FCM-XXXX Series Slots |
| No. of Power Slots | | 2 FCM-CHS2 Power Slots for AC & DC |
| Fiber Redundancy | | Compatible with FCM Module for Fiber Redundancy |
| Power Redundancy | | 2 Hot-swappable Redundant Power (1 Included) |
| Power | AC | 100 ~ 240V 50/60Hz 4.0 ~ 2.0A |
| | DC | 48VDC 40A Max (*DC Power Unit Sold Separately) |
| Power Consumption | Empty | 3.5W (Empty Load) |
| | Full | 120W Max (Full Load) |
| Operating Temp. | | 0ºC ~ 50ºC |
| Mechanical | | 19" Rackmount |
| Approvals | | CE, FCC |

# Example Management Applications




IN-BAND Management




Remote Loop Back Management

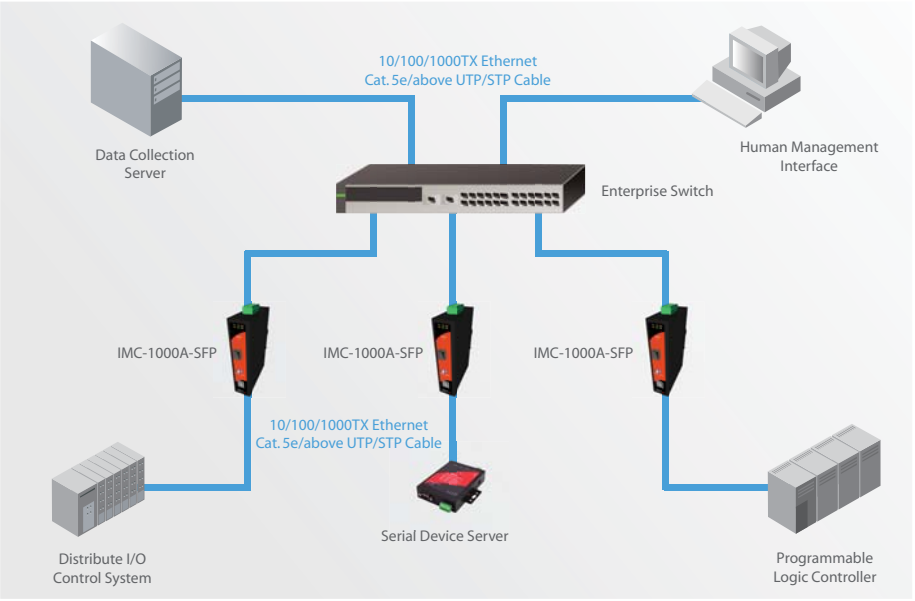
## Media Converters - Unmanaged

| Model | | FCU-100SC/ST (-S*) | FCU-3002A-SC (-S*) | FCU-3002A-SFP | FCU-3012SFP | IMC-100A (-T) | IMP-100A (-T) | IMC-1000A-SFP (-T) |
|---|---|---|---|---|---|---|---|---|
| Image | |  |  |  |  |  |  |  |
| Speed | TX | 10/100Mbps | 10/100/1000Mbps | 10/100/1000Mbps | 10/100/1000Mbps | 10/100Mbps | 10/100Mbps | 10/100/1000Mbps |
| | FX | 100Mbps | 1000Mbps | 1000Mbps | 1000Mbps | 100Mbps | 100Mbps | 1000Mbps |
| Wavelength | | 1310 nm | 850 nm / 1310 nm | *See SFP Specifications | *See SFP Specifications | 1310 nm | 1310 nm | *See SFP Specifications |
| Fiber Type | | Multi-Mode / Single-Mode | Multi-Mode / Single-Mode | *See SFP Specifications | *See SFP Specifications | Multi-Mode / Single-Mode | Multi-Mode / Single-Mode | *See SFP Specifications |
| Fiber Distance | | 2 Km / 30+ Km | 550 m / 10+ Km | *See SFP Specifications | *See SFP Specifications | 2 Km / 30+ Km | 2 Km / 30+ Km | *See SFP Specifications |
| Connector | TX | RJ-45 | RJ-45 | RJ-45 | RJ-45 | RJ-45 | RJ-45 | RJ-45 |
| | FX | SC or ST | SC | LC | LC | SC | SC | LC |
| | COM | - | - | - | RJ-45 to DB-9 | - | - | - |
| Operating Temperature | STD. | 0ºC ~ 50ºC | 0ºC ~ 50ºC | 0ºC ~ 50ºC | 0ºC ~ 50ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC |
| | EOT | - | - | - | - | -40ºC ~ 80ºC | -40ºC ~ 80ºC | -40ºC ~ 75ºC |
| Power over Ethernet | | - | - | - | - | - | 1 PoE Port | - |
| Mechanical | | Standalone | Standalone | Standalone | Standalone | Industrial | Industrial | Industrial |
| Approvals | | CE, FCC | CE, FCC | CE, FCC | CE, FCC | UL CID2,CE, FCC | UL, CE, FCC | UL CID2,CE, FCC |

## Unmanaged Media Converter Rack

| Model | | FCU-RACK16 |
|---|---|---|
| Image | |  |
| No. of Module Slots | | 16 FCU-XXXX Series Slots |
| No. of Power Slots | | 2 FCU-RACK16 Power Slots for AC & DC |
| Indicators | | Power A, Power B |
| Power Redundancy | | 2 Hot-swappable Redundant Power (1 Included) |
| Power Input | | 100 ~ 240V |
| Power Output | | 5V |
| Power Consumption | Empty | 9.5W (Empty Load) |
| | Full | 89W Max (Full Load) |
| Operating Temp. | | 0ºC ~ 50ºC |
| Mechanical | | 19" Rackmount |
| Approvals | | CE, FCC |

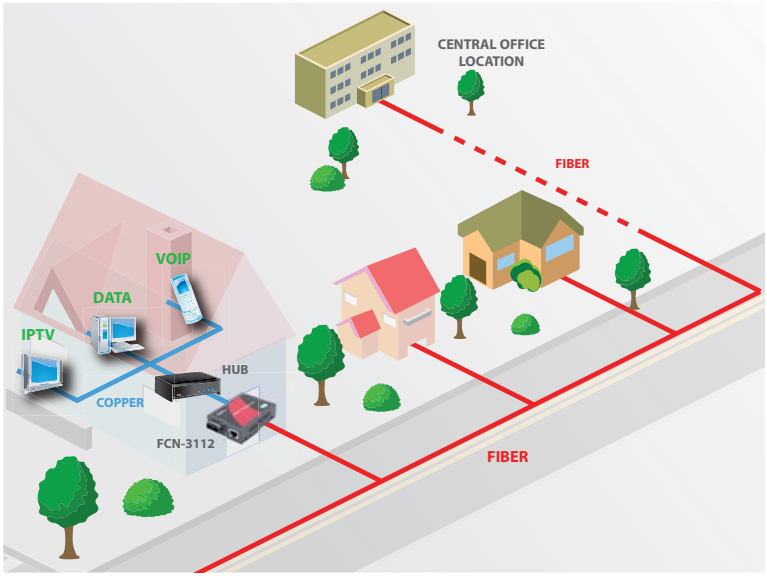
## Example IMC-1000A-SFP Installation



## Media Converters - Managed WDM

| Model | | FCM-2312WA/WB-S* | FCM-3312WA/WB-S* | FCS-2312WA/WB-S* | FCS-3312WA/WB-S* | FCN-2112WA/WB-S* | FCN-3112WA/WB-S* |
|---|---|---|---|---|---|---|---|
| Image | |  |  |  |  |  |  |
| Speed | TX | 10/100Mbps | 10/100/1000Mbps | 10/100Mbps | 10/100/1000Mbps | 10/100Mbps | 10/100/1000Mbps |
| | FX | 100Mbps | 1000Mbps | 100Mbps | 1000Mbps | 100Mbps | 1000Mbps |
| Wavelength | WA | TX: 1310nm, RX: 1550nm | TX: 1310nm, RX: 1550nm | TX: 1310nm, RX: 1550nm | TX: 1310nm, RX: 1550nm | TX: 1310nm, RX: 1550nm | TX: 1310nm, RX: 1550nm |
| | WB | TX: 1550nm, RX: 1310nm | TX: 1550nm, RX: 1310nm | TX: 1550nm, RX: 1310nm | TX: 1550nm, RX: 1310nm | TX: 1550nm, RX: 1310nm | TX: 1550nm, RX: 1310nm |
| Fiber Type | | Single-Mode | Single-Mode | Single-Mode | Single-Mode | Single-Mode | Single-Mode |
| Fiber Distance | | 20+ Km | 20+ Km | 20+ Km | 20+ Km | 20+ Km | 20+ Km |
| Connector | TX | RJ-45 | RJ-45 | RJ-45 | RJ-45 | RJ-45 | RJ-45 |
| | FX | SC | SC | SC | SC | SC | SC |
| | COM | - | - | - | - | - | - |
| Mechanical | | Slide-In | Slide-In | IN-BAND | IN-BAND | Standalone | Standalone |
| Approvals | | CE, FCC | CE, FCC | CE, FCC | CE, FCC | CE, FCC | CE, FCC |

## Example Managed WDM (Single Fiber) Application




**Featured Product**

FCN-3112WA/WB-S2

10/100/1000TX To 1000LX Single Strand Fiber (WDM) SNMP Managed Media Converter

**Application Summary**

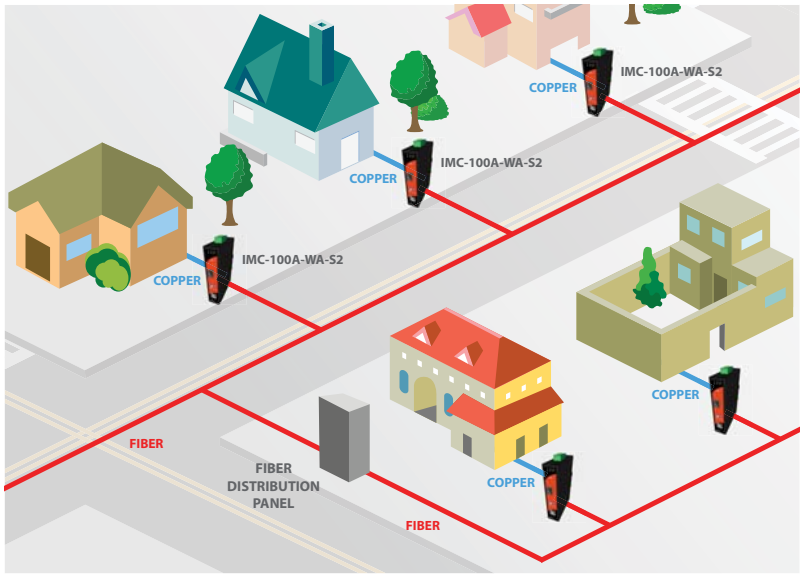
The diagram shows how the FCN-3112WA/WB-S2 Standalone WDM SNMP Managed Media Converter can be utilized in a Fiber to the Home application.

The FCN-3112WA/WB-S2 Media Converter can be placed between the fiber run and the homes Ethernet hub. All IP based devices can then connect to the hub and benefit from the fiber connection.

# Media Converter - Unmanaged WDM

| Model | | FCU-100WA/WB-S* | FCU-3002A-WA/WB-S* | FCU-3002A-SFP | FCU-3012SFP | IMC-100A-WA/WB-S* | IMP-100A-WA/WB-S* | IMC-1000A-SFP (-T) |
|---|---|---|---|---|---|---|---|---|
| Image | |  |  |  |  |  |  |  |
| Speed | TX | 10/100Mbps | 10/100/1000Mbps | 10/100/1000Mbps | 1000Mbps | 10/100Mbps | 10/100Mbps | 10/100/1000Mbps |
| | FX | 100Mbps | 1000Mbps | 1000Mbps | 1000Mbps | 100Mbps | 100Mbps | 1000Mbps |
| Wavelength | WA | TX: 1310nm, RX: 1550nm | TX: 1310nm, RX: 1550nm | *See SFP Specifications | *See SFP Specifications | TX: 1310nm, RX: 1550nm | TX: 1310nm, RX: 1550nm | *See SFP Specifications |
| | WB | TX: 1550nm, RX: 1310nm | TX: 1550nm, RX: 1310nm | *See SFP Specifications | *See SFP Specifications | TX: 1550nm, RX: 1310nm | TX: 1550nm, RX: 1310nm | *See SFP Specifications |
| Fiber Type | | Single-Mode | Single-Mode | *See SFP Specifications | *See SFP Specifications | Single-Mode | Single-Mode | *See SFP Specifications |
| Fiber Distance | | 20+ Km | 20+ Km | *See SFP Specifications | *See SFP Specifications | 20+ Km | 20+ Km | *See SFP Specifications |
| Connector | TX | RJ-45 | RJ-45 | RJ-45 | RJ-45 | RJ-45 | RJ-45 | RJ-45 |
| | FX | SC | SC | LC | LC | SC | SC | LC |
| | COM | - | - | - | RJ-45 to DB-9 | - | - | - |
| Operating Temperature | STD. | 0ºC ~ 50ºC | 0ºC ~ 50ºC | 0ºC ~ 50ºC | 0ºC ~ 50ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC | -10ºC ~ 70ºC |
| | EOT | - | - | - | - | -40ºC ~ 80ºC | -40ºC ~ 80ºC | -40ºC ~ 75ºC |
| Power over Ethernet | | - | - | - | - | - | 1 PoE Port | - |
| Mechanical | | Standalone | Standalone | Standalone | Standalone | Industrial | Industrial | Industrial |
| Approvals | | CE, FCC | CE, FCC | CE, FCC | CE, FCC | UL, CE, FCC | UL, CE, FCC | UL CID2, CE, FCC |

# Example Unmanaged WDM (Single Fiber) Application (Fiber to Home)




**Featured Product**

IMC-100A-WA/WB-S2

10/100BaseTX to 100BaseFX Single Strand Fiber (WDM) Industrial Media Converter

**Application Summary**

The diagram shows how to utilize the Optolinx IMC-100A-WA/WB-S2 Single Strand Fiber (WDM) Industrial Media Converter in a Fiber to the Home application.

Each IMC-100A/WB-S2 Industrial Media Converter can simply be installed at a home to provide fiber connectivity. Each household then connects via Ethernet to the Media Converter for access.

## Serial to Ethernet Device Servers

| Model | STE-501C | STE-502C | STE-601C | STE-604C (-P) |
|---|---|---|---|---|
| Image |  |  |  |  |
| Serial Interface | RS-232/422/485 | RS-232/422/485 | RS-232/422/485 | RS-232/422/485 |
| No. of Serial Ports | 1 | 2 | 1 | 4 |
| Network Interface | 10/100Mbps Fast Ethernet | 10/100Mbps Fast Ethernet | 10/100Mbps Fast Ethernet | 10/100Mbps Fast Ethernet |
| Flash Memory | 512 KBytes | 512 KBytes | 512 KBytes | 8 MB |
| SDRAM | 512 KBytes | 512 KBytes | 512 KBytes | 32 MB |
| CPU | 16-bit Embedded CPU | 16-bit Embedded CPU | 16-bit Embedded CPU | ARM9: 200 Mhz |
| Flow Control | Xon/Xoff, RTS/CTS | Xon/Xoff, RTS/CTS | Xon/Xoff, RTS/CTS | Xon/Xoff, RTS/CTS, DTR/DSR |
| Data Rate | 1200bps ~ 230 Kbps | 1200bps ~ 230 Kbps | 1200bps ~ 230 Kbps | 110 bps ~ 460.8 Kbps |
| Parity | None, Even, Odd, Mark, Space | None, Even, Odd, Mark, Space | None, Even, Odd, Mark, Space | None, Even, Odd, Mark, Space |
| Data Bits | 7 or 8 | 7 or 8 | 7 or 8 | 5, 6, 7, 8 |
| Stop Bits | 1 or 2 | 1 or 2 | 1 or 2 | 1, 1.5, 2 |
| Operating Temp. | 0ºC ~ 60ºC | 0ºC ~ 60ºC | -20ºC ~ 70ºC | -30ºC ~ 70ºC |
| Power over Ethernet | - | - | - | 1 PoE Port (-P Model Only) |
| Mechanical | Standalone | Standalone | Industrial | Industrial |

## Serial to Wi-Fi Servers

| Model | STW-601C | STW-602C |
|---|---|---|
| Image |  |  |
| Serial Interface | 1-Port RS-232/422/485 | 2-Port RS-232/422/485 |
| Network Interface | 10/100Mbps Fast Ethernet | 10/100Mbps Fast Ethernet |
| Wireless (Wi-Fi) | IEEE 802.11b/g Compliant | IEEE 802.11b/g Compliant |
| Flash Memory | 10 MB (2 MB for Bootloader) | 2+8 MB (2 MB for Bootloader) |
| SDRAM | 32 MB | 32 MB |
| CPU | IDT RISC Processor with MMU | IDT RISC Processor with MMU |
| Flow Control | Xon/Xoff, RTC/CTS | Xon/Xoff, RTC/CTS |
| Data Rate | 1200 bps ~ 921 Kbps | 1200 bps ~ 921 Kbps |
| Parity | None, Even, Odd, Mark, Space | None, Even, Odd, Mark, Space |
| Data Bits | 7 or 8 | 7 or 8 Data |
| Stop Bits | 1 or 2 | 1 or 2 |
| Operating Temp. | -20ºC ~ 70ºC | -20ºC ~ 70ºC |
| Mechanical | Industrial | Industrial |

## Serial to Modbus TCP

| Model | STM-501C |
|---|---|
| Image |  |
| Serial Buffer | Output: 64K bytes / Input: 8K bytes per port |
| Serial Connection | DTE - DB-9 Male |
| Serial Interface | RS-232/422/485 |
| No. of Serial Ports | 1 |
| Network Interface | 10/100Mbps Fast Ethernet |
| Protocol | TCP, IP, ARP, DHCP, Telnet, HTTP, UDP, ICMP |
| Management | Manager software, Serial Console, Telnet, Web server Firmware Upgradeable |
| Data Rate | 110 bps ~ 230.4 kbps |
| Parity | None, Even, Odd, Mark, Space |
| Data Bits | 5, 6, 7, 8 |
| Stop Bits | 1, 1.5, 2 |
| Operating Temp. | 0ºC ~ 50°C |
| Mechanical | Standalone |