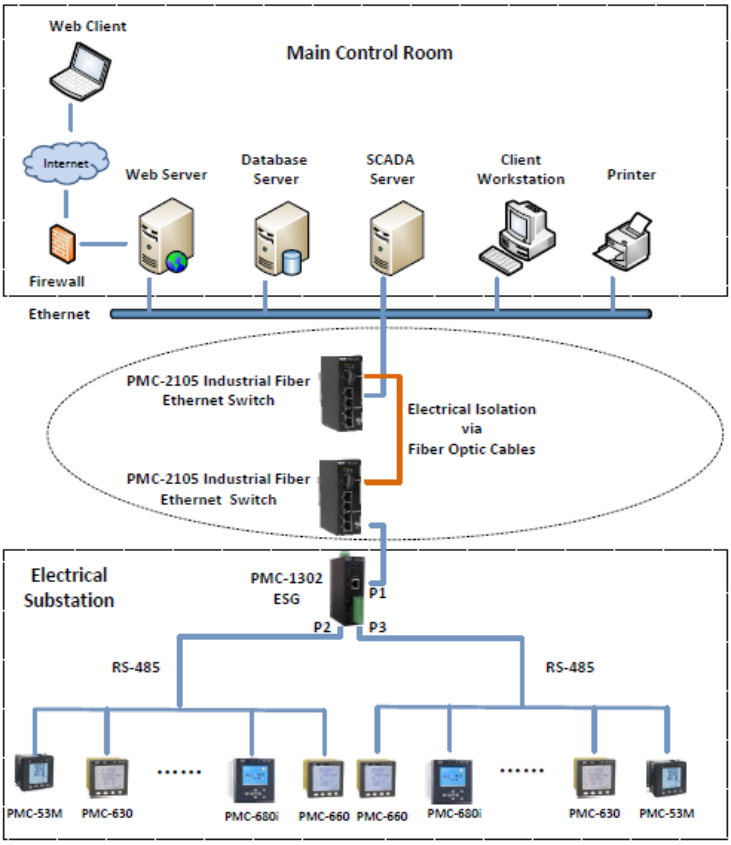
# PMC-2105
# Industrial Fiber Ethernet Switch




## Typical Application




## Overview

The PMC-2105 Industrial Fiber Ethernet Switch supports plug-and-play capability with a single 100BaseFX fiber port and four 10/100BaseT ports. The PMC-2105 has been designed specifically with industrial automation in mind and therefore provides un-surpassed performance and reliability under the harshest industrial or commercial environments.

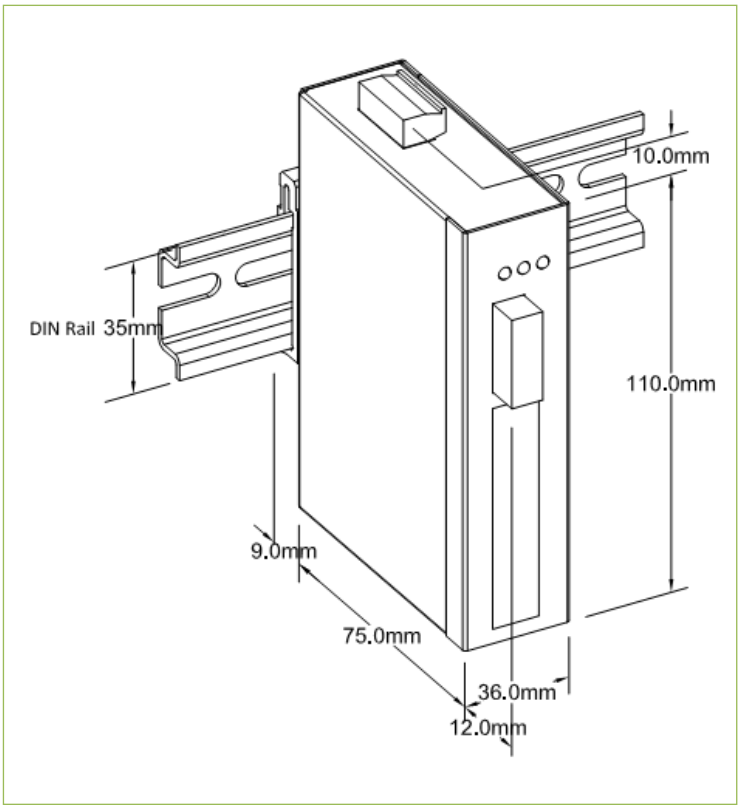
## Features

- One 100BaseFX Fiber Ethernet Port supporting Full-Duplex operation
- Four auto-sensing 10/100BaseT Ethernet ports
- Compliance with IEEE802.3 and IEEE802.3u standards
- Act, Link and PWR LED Status Indicators
- 1kB MAC Address Table Size and 1MB Cache Buffer
- Plug and Play
- Standard DIN-Rail Mount
- 6kV ESD protection
- 1.5kV isolation protection for Ethernet ports
- Extended operating temperature

## Applications

- Fiber Ethernet conversion with integrated 4-port switch
- Extend Ethernet segment up to 60km
- Provide electrical isolation for substation, industrial, factory and building automation

## Dimensions and Installation




**Designed For Reliability** **Manufactured To Last**

# PMC-2105
# Industrial Fiber Ethernet Switch

## *Technical Specifications*

| | |
|---|---|
| **Standards** | |
| IEEE | 802.3, 802.3u |
| **Ethernet Interface** | |
| Fiber Port | 1x100BaseFX with ST connectors |
| Ethernet Port | 4x10/100BaseT with RJ45 connectors |
| **Cable** | |
| 10/100BaseT | CAT5, CAT5e with a maximum 100m distance |
| Multi-Mode Fiber | Supporting a distance of 2km |
| Wavelength, Size | 1310nm, 62.5/125 µm and 50/125µm |
| Single-Mode Fiber | Supporting a distance of 20km / 60km |
| Wavelength, Size | 1310nm, 9/125 µm |
| **Front Panel LED Indicators** | |
| PWR (Red) | Power supply indicator |
| Link (Green) | Fiber port connection status |
| Act (Yellow) | Fiber port activities |
| **Power Supply (L+, N-)** | |
| Standard | 95-250VAC/DC, 47-440Hz |
| Optional | 9-30VDC@ 200mA |
| Burden | <3W |
| **Protection** | |
| ESD Protection | 6kV |
| Isolation Protection | 1.5kV for Ethernet Ports |
| **Environmental Conditions** | |
| Operating Temp. | -25°C to +70°C |
| Storage Temp. | -40°C to +85°C |
| Humidity | 0% to 95% non-condensing |
| **Mechanical Characteristics** | |
| Casing | Galvanized Iron |
| Dimensions (WxHxD) | 36x110x75 mm (1.42″x4.33″×2.95″) |
| Weight | 0.4 kg |
| Mounting | DIN-Rail Mount |
| IP Rating | 30 |

## *Contact us*


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## *Standards of Compliance*

| | | |
|---|---|---|
| **Safety Requirements** | | |
| Insulation | | IEC 60255-5-2000 |
| Dielectric Test | | 2kV@1minute |
| Insulation Resistance | | 100MΩ |
| Impulse Voltage | | 5kV, 1.2/50us |
| **Electromagnetic Compatibility** | | |
| Electrostatic Discharge | | IEC 61000-4-2:2001 Level III |
| Radiated Fields | | IEC 61000-4-3:2002 10V/m |
| Fast Transients | | IEC 61000-4-4:2004 Level III |
| Surges | | IEC 61000-4-5:2005 Level III |
| Conducted Disturbances | | IEC 61000-4-6:2006 Level III |
| Magnetic Fields | | IEC 61000-4-8:2001 Level IV |
| Oscillatory Waves | | IEC 61000-4-12:1995 Level III |
| **Mechanical Tests** | | |
| Vibration Test | Response | IEC 255-21-1:1988 Level I |
| | Endurance | IEC 255-21-1:1988 Level I |
| Shock Test | Response | IEC 255-21-2:1988 Level I |
| | Endurance | IEC 255-21-2:1988 Level I |
| Bump Test | | IEC 255-21-2:1988 Level I |

## *Ordering Information*

| Product Code | Description |
|---|---|
| **PMC-2105 Industrial Fiber Ethernet Switch** | |
| **Power Supply** | |
| 2 | 95-250VAC/VDC, 47-440Hz |
| A | 9-30VDC |
| **Fiber Connector** | |
| ST | ST Connector |
| **Fiber Port** | |
| M002 | Multi-mode, 2km |
| S020 | Single-mode, 20km |
| S060 | Single-mode, 60km |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PMC-2105 | – | 2 | – | ST | – | M002 | PMC-2105-2-ST-M002 ( Standard Model) |

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