Product Description

The Maxcom Industrial Ethernet switch/media converter series uses the latest IC technology from the USA, with highly stable performance, high quality and reliability in harsh environments. Used to convert copper ethernet data to fiber optic signals and vice versa at speeds of 10/100/1000Mbps. Units are available as standalone modules that can be wall mounted or DIN-Rail mounted. Unmanaged, plug and play, no configuration, easy to use. Available in several configurations, optional POE, one or two SFP slots and one to eight RJ45 ports. Built for Maximum Reliability.

Product Features

* Ports: 10/100/1000Mbps RJ45's with Auto Uplink , and 1000Mbps SFP Slots
* Automatic MAC address learning and aging
* Automatically supports IGMP (Multicasting)
* 10/100/1000Mbps Auto-negotiation , auto-MDI-MDI-X
* LED indicators for monitoring power/link/activity
* Supports 10/100/1000Mbps-Full/Half-duplex
* Supports Wall-mount and DIN-Rail installation
* Super lightening protection, IP40 protection.
* Excellent heat elimination without cooling fan.
* Flexible powering 12 ~ 48Vdc *(48Vdc with POE)
* Harsh industrial environments
* Operating temperature range -45ˇ~ 85ˇC (-40 ~ +167 F)

Ordering Information

MXi-SFP0101G 10/100M/1000M, (1) SFP to (1) RJ45   [1 SFP] [1 RJ-45]

MXi-SFP0104G 10/100M/1000M, (1) SFP to (4) RJ45   [1 SFP] [4 RJ-45]

MXi-SFP0108G 10/100M/1000M, (1) SFP to (8) RJ45   [1 SFP] [8 RJ-45]

MXi-SFP0204G 10/100M/1000M, (2) SFP to (4) RJ45   [2 SFP] [4 RJ-45]

MXi-SFP0208G 10/100M/1000M, (2) SFP to (8) RJ45   [2 SFP] [8 RJ-45]

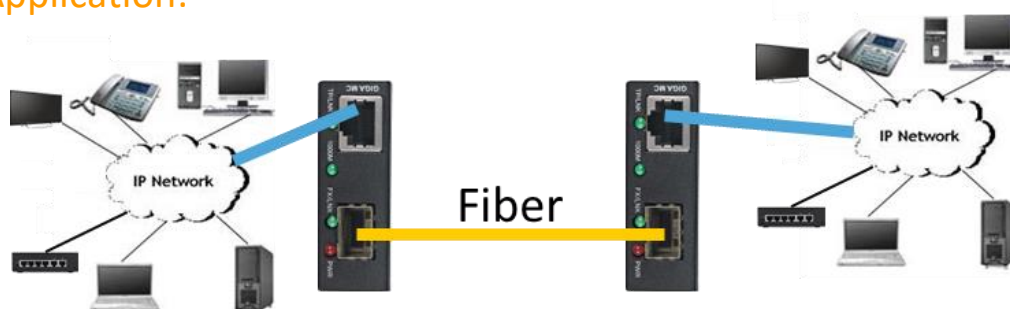POE Option: Add "POE" to the end of part numbers above   [POE]

DIN Rail: Part# MXi-DIN19-1R - Optional 19" 1RU DIN Rail

Power Supply: Flexible devices work with External DC power between 12~56 Vdc
*If ordering with POE option, use a 48~56 Vdc power supply (See price sheet for models and options)

Typical Application:

Fiber

Example Application

Specifications

Standards

IEEE Ethernet Standards	IEEE802.3, IEEE802.3u, IEEE 802.1ab, IEEE 802.3x, IEEE 802.3ad, IEEE 802.3z IEEE 802.1d, IEEE 802.1p, IEEE 802.1q IEEE 802.1w, IEEE 802.1s, IEEE 802.1x

Ports

10/100/1000M Base-T RJ-45	1~8 ports
1000MBase-X SFP (*note 1)	1~2 ports

Switch Performance

	*Model specific:
Architecture	Store-and-forward *All Models
Bandwidth	4.0 Gbps * MXi-SFP0101G
	12.0 Gbps * MXi-SFP0104G
	12.0 Gbps * MXi-SFP0108G
Buffer	1 Mbps * MXi-SFP0101G
	2 Mbps * MXi-SFP0104G

Twisted Pair Transmission

10BASE-T	Cat3,4,5 UTP(˘100 meter)
100BASE-TX	Cat5 or later UTP(˘100 meter)

Certification

3C,CE, ,FCC, RoHS

Mechanical

Enclosure	Ip40
Dimension (W*L*H) (1~4 RJ45 ports)	130mm * 94mm * 36mm
Dimension (W*L*H) (8 RJ45 ports)	158mm * 118mm * 42mm
Weight	0.5KG

*1. SFP slots support SMF, MMF, BiDi, CWDM, DWDM SFP modules.

Mechanical properties

IEC60068-2-6 (anti vibration)
IEC60068-2-27 (anti shock)
IEC60068-2-32 (free fall)

Anti-surge / Protection Level

Anti-surge:4KV 8/20us; Protection Level:IP40 IEC61000-4-2(ESD)˘8kV Contact Discharge,˘15kV IEC61000-4-3(RS)10V/m(80~1000MHz)
IEC61000-4-4(EFT)Power Line: ˘4kV; Data Line: ˘2kV
IEC61000-4-5(Surge)Power Line,CM˘4kV/DM˘2kV, 100A/m Continued; 1000A/m,1s to 3s
IEC61000-4-9 (Pulsed Magnetic Field) 1000A/m IEC61000-4-10 (Damping Oscillation) 30A/m ,1MHz IEC61000-4-12/18 (SHOCKWAVE) CM 2.5kV, DM 1kV
IEC61000-4-16 (Common Mode Conduction) 30V Continued; 300V,1s FCC Part 15/CISPR22,EN55022,Class A
IEC61000-6-2(General Industry standard)

Power

DC Power Input: 12 ~ 48Vdc (48 Vdc with POE)
Power Consumption < 12W (without PoE output)
Power Consumption: Add 30 watts for each POE port
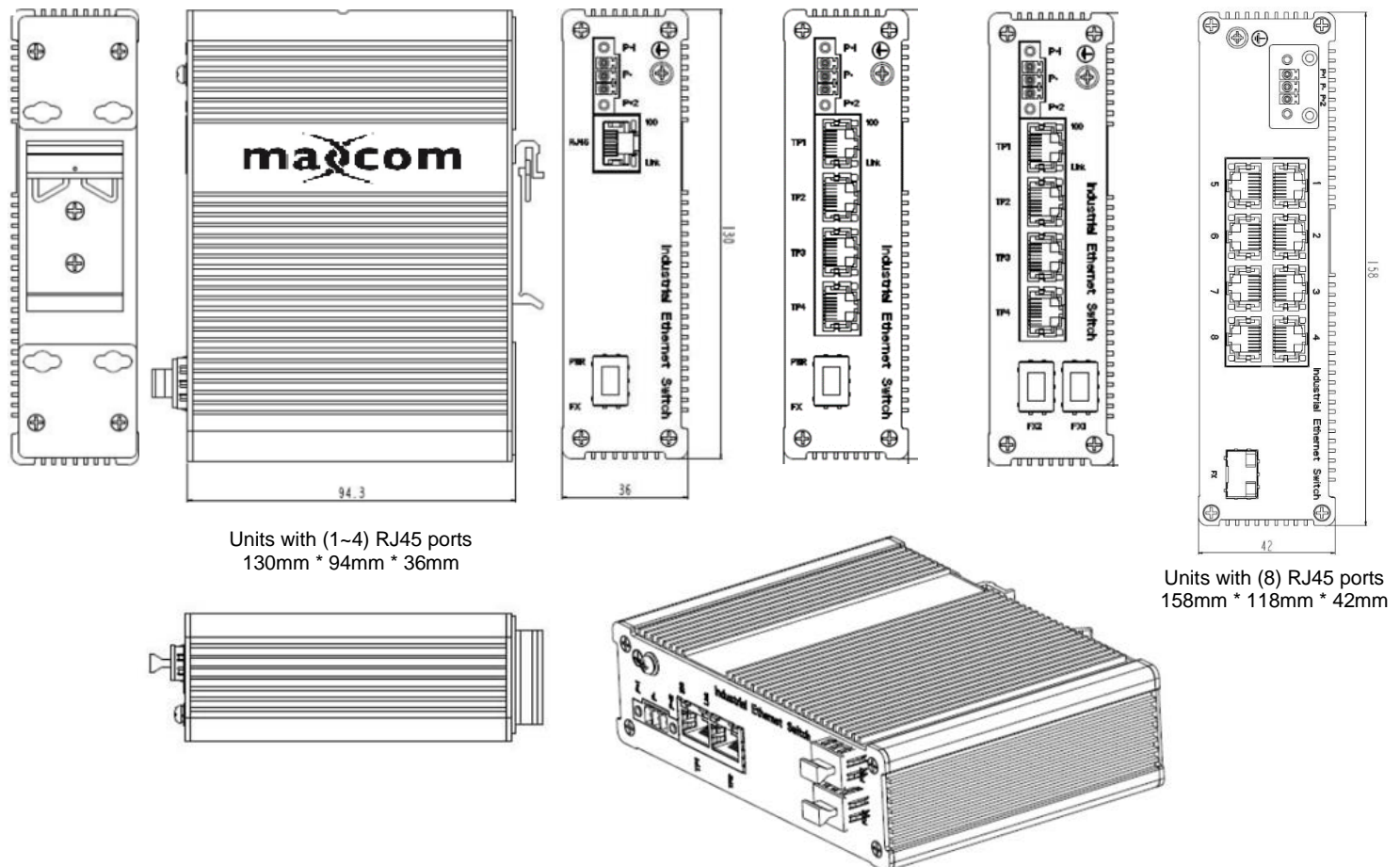Overload Current Protection   Yes
Reverse polarity protection   Yes

PoE

Standard IEEE802.3af/at
PSE Type End-span
Power Pin Assignment 1 / 2 (+), 3 / 6 (-)
Power Output (2) Each port up to 30W

Environmental

Operating Temperature	-40 ~ +167 Degree F
Storage Temperature	-40 ~ +185 Degree F
Operating humidity	5%~95% non-condensing

Configuration Examples:

Units with (1~4) RJ45 ports
130mm * 94mm * 36mm

Units with (8) RJ45 ports
158mm * 118mm * 42mm

Simple and Neat Industry Standard DIN Rail Mountable

DIN Rail Mounting Bracket

Optional DIN Rail Available:
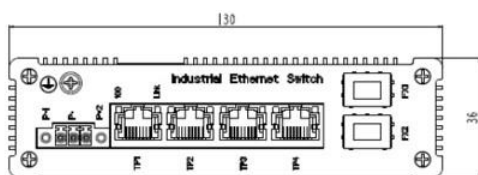

MXi-DIN19-1R
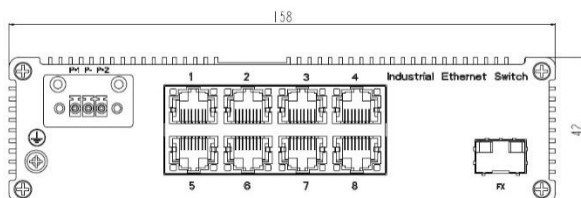Example 1RU-19"

Power Supplies:

Maxcom Industrial Grade Media Converters are flexible and will operate with any DC power supply between 12~57 Vdc *(48~57 Vdc if using POE option).

Maxcom Industrial Fiber Optic Media Converters are robustly designed to support hardened temperature ranges of -40º to 167ºF. These Industrial Media Converters are available as standalone modules that can be wall mounted, DIN-Rail mounted or installed in a variety of rack-mount chassis.

Units with (1~4) RJ45 ports
130mm * 94mm * 36mm

OPTIONAL POE

Units with (8) RJ45 ports
158mm * 118mm * 42mm

PLUG AND PLAY
SFP SLOTS SUPPORT
INDUSTRY STANDARD 1GIG

Maxcom Supplies SFP's in a variety of types and distances, however these media converters are agnostic and will host other manufacturer SFP's.

- Single Mode Fiber and Multimode Fiber SFP's
- Distances of 2km, 40km, 80km, 120km and up to 160km SFP's
- DWDM, CWDM wavelength SFP's
- Single Fiber BiDi SFP's