Rocstor MediaReach MR27
Gigabit Ethernet PoE+ Media Converter
10/100/1000Base-T PoE+ RJ-45 Port + 100/1000Base-X SFP Slot
Y10P013-B1

The Rocstore MediaReach MR27 is an industrial Media Converter and switch meticulously engineered by Rocstor. This advanced device boasts dual 10/100/1000M Ethernet ports and a single 1000M SFP port, offering unparalleled flexibility for your networking requirements. What truly distinguishes it is the ability for users to select from a range of optical modules, including multi-mode dual fiber, single-mode dual fiber, and single-mode single fiber, allowing for precise tailoring of connectivity options. Equipped with state-of-the-art IC technology, the MR27 ensures unwavering and reliable performance.

Designed to excel in a diverse array of environments, including government, commercial, and industrial sectors, the MediaReach MR27 excels in applications such as intelligent transportation, rail transit, electric power, mining, and green energy construction. It stands as the quintessential solution for seamless, high-performance networking, setting new benchmarks in connectivity and dependability. When superior networking solutions are paramount, entrust Rocstore's MediaReach MR27 to deliver uncompromising quality.

Meet the MR27 Gigabit Ethernet Stand-alone Media Converter—a cost-effective, turnkey solution for seamless media conversion. Bridging the divide between 10/100/1000Base-T and 100/1000Base-SX/LX ports, this fixed-configuration marvel simplifies your deployments with effortless plug-and-play functionality. Functioning at Layer 2, it not only facilitates copper-to-fiber conversion but also conducts rate conversion for legacy 10/100 copper devices seeking integration with 1000Base-SX/LX fiber networks.

The MR27, however, doesn't end there; it serves as your Power Sourcing Equipment (PSE), ensuring the delivery of both power and data to Powered Devices (PD) via twisted Pair cables. Fully compliant with IEEE 802.3af and IEEE 802.3at PoE+ standards, it seamlessly integrates data from fiber optic links with 52VDC input power, rendering it ideal for applications like VoIP Phones, Security Cameras, and Wireless Access Points situated in remote areas exclusively reachable through fiber optic cabling. Experience the convergence of fiber cabling and Power-over-Ethernet (PoE) technology at its finest with the MR2.
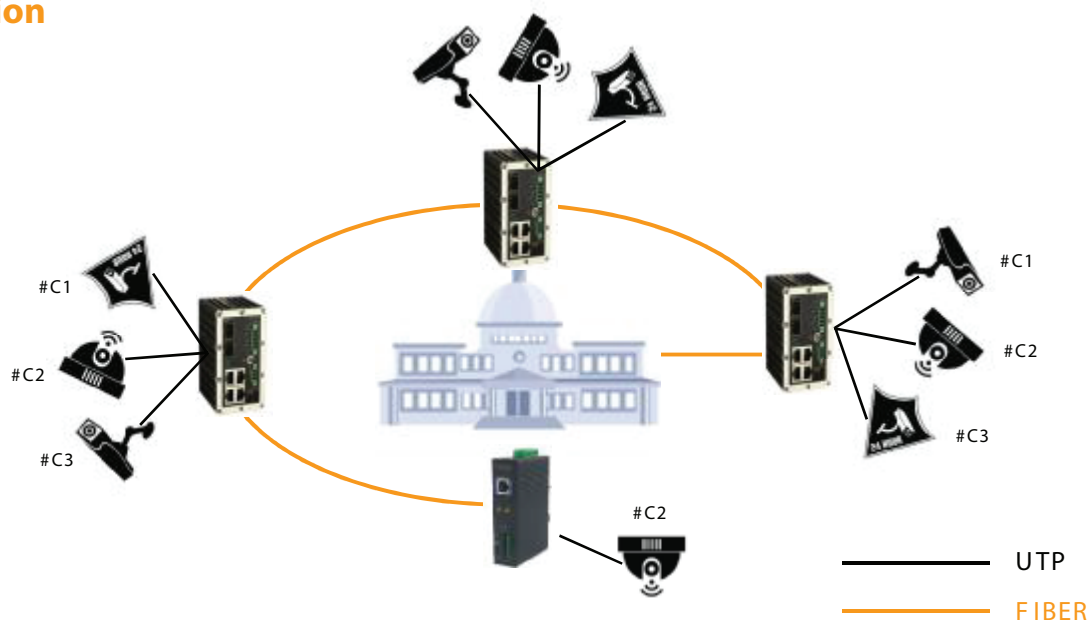
Feature

- **2 Port 10/100/1000Mbps RJ45 with Auto Uplink , 1 port 1000Mbps SFP Slot**
- **Automatic MAC address learning and aging**
- **Automatically support 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 for lightning protection**
- **Supports Daisy-Chain connection**
- **Supports Broadcast Storm Control**
- **Supports Relay output for power failure**
- **Super lightening protection, IP40 protection.**
- **Excellent heat elimination without cooling fan.**
- **Redundant dual DC power inputs.**
- **Redundant Power Inputs**
- **Apply to Urban Intelligent Traffic Monitoring System (ITS), Safe City.**
- **Harsh industrial environment or higher requirement**
- **-45 -85 operating ˇˇ temperature range**

Application

#C1
#C2
#C3

#C1
#C2
#C3

#C2

UTP
FIBER

Specification

Products	**Rocstor MediaReach MR27**
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	**10/100/1000MBase-T, 1000MBase-X SFP**
Switch Performance	
Architecture	**Store-and-forward**
Bandwidth	**4.0Gbps**
Buffer	**1Mbps**
Mac Address Table	**8192Optic Interface**
PoE(Need customer order will add POE module inside)	
Standard I	**EEE802.3af/at**
PSE Type	**End-span**
Power Pin Assignment	**1 / 2 (+), 3 / 6 (-)**
Power Output	**Each port up to 30W**
Twisted Pair Transmission	
100BASE-TX	**Cat5 or later UTP(˘100 meter)**
10BASE-T	**Cat3,4,5 UTP(˘100 meter)**
Certification	**3C,CE, ,FCC, RoHS**
Mechanical	
Enclosure	**Ip40**
Dimension (W*L*H)	**118 x 86 x 39mm - 4.6 x 3.3 x 1.5 in**
Weight	**17.6oz - 0.5KG**
Mechanical properties	
IEC60068-2-6 (anti vibration)	
IEC60068-2-27 (anti shock)	
IEC60068-2-32 (free fall)	
Power	
DC Power Input	**12 ~ 48Vdc**
POE DC power Input	**48~52Vdc**
Power Consumption	**< 10W (without PoE output)**
POE Budget	**120W**
Overload Current Protection	**Yes**
Reverse polarity protection	**Yes**

Specification

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)

Warning & Monitoring

Relay output for fault event alarming

Syslog to record and view events

Event selection support

Relay Output	**1A@24VDC NC or NO**

Environmental

Operating Temperature	**-40 ~ +75Degree**
Storage Temperature	**-40 ~ +85Degree**
Operating humidity	**5%~95% non-condensing**