

RS-0802C-M12

10 Port M12 Industrial Managed Gigabit Ethernet Router



- Compliant with EN50155
- 8x 10/100T(x) M12 connector
- 2x 10/100/1000T(x) M12 connector with relay bypass
- Support Bypass function for non-stop communication even when no power exists
- Built for harsh environments and wide temperature range application
- TTDP embedded software, automatically configure train consists
- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- Supports IGMP Snooping v1/v2/v3, up to 512 groups
- SNMP v1/v2c/v3 for network management
- Supports Storm Protection
- Supports industrial automation protocols Ethernet/IP and Modbus TCP

Specifications

Technology

IEEE 802.3 10BaseT
 IEEE 802.3u 100BaseTX
 IEEE 802.3ab 1000BaseT
 IEEE 802.3x Flow Control
 IEEE 802.3az Energy-Efficient Ethernet
 IEEE 802.3ad/802.1AX LACP
 IEEE 802.1D Spanning Tree Protocol
 IEEE 802.1w Rapid STP
 IEEE 802.1s Multiple STP
 ITU-T G.8032 / Y.1344 ERPS
 IEEE 802.1Q VLAN Tagging
 IEEE 802.1ad Stacked VLANs
 IEEE 802.1p Class of Service
 IEEE 802.1X Network Authentication
 IEEE 802.1AB LLDP
 IEEE 1588 PTP

Processing Type Store and Forward

Switch Properties

Switch Fabric 5.6Gbps

Priority Queues 8 Queues

Jumbo Frame 9216bytes

MAC Table Size 16K

Packet Buffer 12Mbits

VLAN Table Size 4094

IGMP Group 512

ACL Group 512

Router Forwarding Rate 5Mbits

Software Feature

Network Redundancy RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP

Security 802.1X, RADIUS, TACACS+, SSL, SSH

Management IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP

Diagnostics RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP

Configuration DHCP Server/Client, Relay Option 82, TFTP

Filter 802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning

Time Sync. NTP, IEEE1588v2 OC (Software Timestamp), BC (Software Timestamp), TC (Hardware Timestamp)

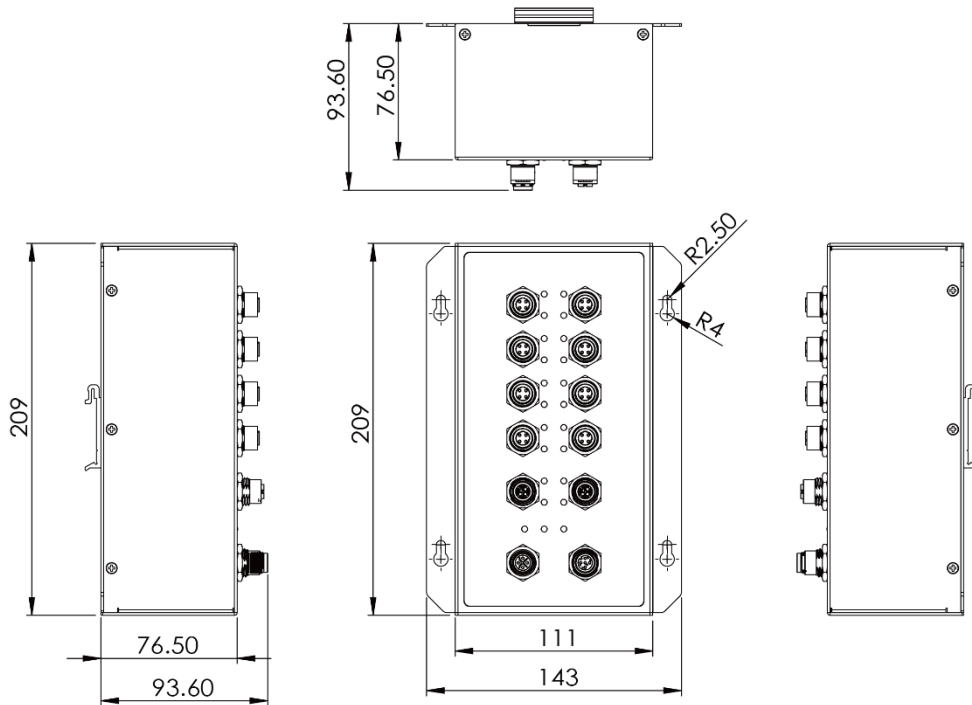
QoS CoS, DSCP, WRR/SPQ Queuing, Storm Protection

Industrial Profiles	Ethernet/IP, Modbus TCP, Profinet, TTDP
L3 Routing	NAT
Interface	
Network Connector	8x 10/100T(x) M12 Female D-coded 4-pole, 2x 10/100/1000T(x) M12 Female X-coded 8-pole, auto negotiation speed duplex mode, auto MDI/MDI-X
LED Indicators	Per unit: PWR1, PWR2, Status Ports: Link/Active with highest speed(Green), low speed(Amber)
Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC
Serial Console	1x RS232 in M12 Male A-coded 5-pole connector with console cable, 115.2Kbps, 8N1
Power Requirements	
Operation Voltage	24-48VDC, 72-110VDC, redundant dual inputs
Connection	M12 Male S-coded 4-pole
Power Consumption	0.59A@24VDC; 0.2A@72VDC
Protection	Overload Current Protected, Reverse Polarity Protected
Mechanical Construction	
Enclosure	SECC
Protection Class	IP40/IP54(Optional)
Dimensions	143x209x77 mm (WxHxD)

Weight	1.20 kg
Mounting	Wall Mounting Kits, Optional DIN-Rail Mounting
Environmental Limits	
Operating Temperature	Extended: -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)
Regulatory Approvals	
EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC61373
Vibration	IEC61373
Green	RoHS Compliant
Certifications	EN 50155 EN 45545-2
MTBF	>100,000 hours
Warranty	5 Years

Features with star(*) implies those are under development.
In a continuing effort of improvement and updated technology, product specifications are subject to change without notice.

Dimensions (unit = mm)



Ordering Information

RS-0802C-M12-LVU-T	<p>10 Port M12 Industrial Managed Gigabit Ethernet Router</p> <ul style="list-style-type: none"> - 8x 10/100T(x) + 2x 10/100/1000T(x) M12 connector - Power Input: 24-48VDC - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - Protection Class: IP40 - UL Compliant
RS-0802C-M12-LVU-WT	<p>10 Port M12 Industrial Managed Gigabit Ethernet Router</p> <ul style="list-style-type: none"> - 8x 10/100T(x) + 2x 10/100/1000T(x) M12 connector - Power Input: 24-48VDC - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - Protection Class: IP54 - UL Compliant
RS-0802C-M12-HVU-T	<p>10 Port M12 Industrial Managed Gigabit Ethernet Router</p> <ul style="list-style-type: none"> - 8x 10/100T(x) + 2x 10/100/1000T(x) M12 connector - Power Input: 72-110VDC - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - Protection Class: IP40 - UL Compliant
RS-0802C-M12-HVU-WT	<p>10 Port M12 Industrial Managed Gigabit Ethernet Router</p> <ul style="list-style-type: none"> - 8x 10/100T(x) + 2x 10/100/1000T(x) M12 connector - Power Input: 72-110VDC - Operating Temperature: -40°C ~ 75°C (-40°F ~ 167°F) - Protection Class: IP54 - UL Compliant