

RuggedNet® 10GMG/Si

Unmanaged Industrial Multi-Gigabit/Multi-Rate 100M, 1G, 2.5G, 5G, 10G Ethernet Switch

The RuggedNet 10GMG/Si are unmanaged industrial multi-gigabit Ethernet switches. They feature one 1/10G SFP/SFP+ or multi-gigabit/multi-rate RJ-45 uplink port and two multi-gigabit/multi-rate RJ-45 and two 10/100/1000 RJ-45 user ports.

The RJ-45 user ports support multi-gigabit/multi-rate speeds of 100Mbps, 1Gbps, 2.5Gbps, 5Gbps and 10Gbps, supporting frame sizes up to 10,240 bytes.

All models support Directed Switch mode, which directs multicast traffic (such as video) only to the appropriate uplink port, preventing multicast traffic from flooding other network ports.

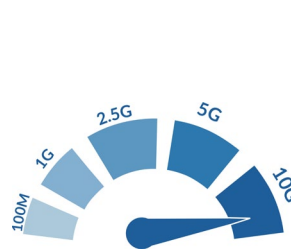
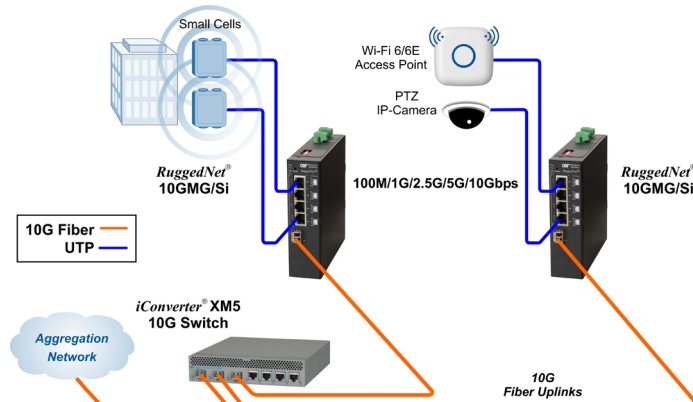
The switches feature a Small Form Pluggable (SFP) transceiver receptacle port supporting a variety of copper and fiber transceivers. It supports 10/100/1000BASE-T, 1000BASE-T, 100M/1G/2.5G/5G/10GBASE-T multi-gigabit copper transceivers and 1G and 10G multimode or single-mode fiber, dual or single-fiber transceivers in standard, CWDM and DWDM wavelengths.

The 10GMG/Si modes of operation can be configured using easily accessible DIP-switches. Each DIP-switch function is labeled on the side of the RuggedNet for ease of identification and use.

The switches can be wall or rack mounted using a wall mount bracket and shelf or DIN-rail mounted using the included DIN-rail mounting clip. They are available with dual DC input power.

Security and Small Cell Application

In this combined application, each RuggedNet 10GMG/Si media converter connects to an iConverter® XM5 10G fiber switch. The RuggedNet switches are providing high speed connectivity to small cell devices that require up to 10Gbps of bandwidth and IP surveillance cameras and Wi-Fi 6/6E Access Points.



SFPs not included

KEY FEATURES

- Unmanaged Industrial 10G multi-gigabit/multi-rate Ethernet Switch
- Directed Switch mode prevents flooding of multicast video traffic
- One SFP/SFP+ transceiver uplink port or multi-gigabit/multi-rate copper port
- 1/10G SFP/SFP+ supports standard/CWDM/DWDM fiber transceiver uplink port
- Uplink port supports copper and fiber SFP/SFP+ transceivers
- Multi-gigabit/multi-rate ports supports speeds of 100Mbps, 1Gbps, 2.5Gbps, 5Gbps and 10Gbps
- Two multi-gigabit/multi-rate RJ-45 and two 10/100/1000 RJ-45 downlink/access ports
- Dual DC power for redundancy
- Wall, Rack and DIN-rail mountable
- Fan-less design for long life
- Industrial (-40 to 75° C) operating temperature
- TAA, BAA and NDAA compliant, and Made in the USA
- Free 24/7/365 Technical Support

SPECIFICATIONS

Description	RuggedNet® 10GMG/Si Unmanaged Industrial 10Gigabit Multi-Gigabit/Multi-Rate Ethernet Switch
Standard Compliances	IEEE 802.3
Regulatory Compliances (Pending)	<p>Safety: UL 62368-1, UL 60950-1, IEC 62368-1, IEC 60950-1, EN 62368-1, EN 60950-1, CAN/CSA C22.2 No. 62368-1-14, CAN/CSA C22.2 No. 60950-1, CE Mark, UKCA</p> <p>EMC: EN 55032/24 CE Emissions/Immunity, IEC 61000-6-4 Industrial Emissions, IEC 61000-6-2 Industrial Immunity</p> <p>EMI: CISPR 32, FCC 47 Part 15 Subpart B Class A</p> <p>EMS: IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m (on UTP cabling) and 20 V/m (on STP cabling), IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV, IEC 61000-4-6 CS: Signal: 10 V, IEC 61000-4-8 (Magnetic Field), 30A/m, IEC 61000-4-11 (General Immunity in Industrial Environments)</p> <p>IP Rating: IP40 Protection</p> <p>ACT: TAA, BAA, NDAA</p>
Environmental	REACH, RoHS and WEEE
Frame Size	Up to 10,240 bytes
Port Types	<p>Copper: 100/1000BASE-T, 2.5GBASE-T/5GBASE-T/10GBASE-T (RJ-45) 10/100/1000BASE-T (RJ-45)</p> <p>SFP/SFP+: 10GBASE-X Fiber Transceivers, 10GBASE-T Copper Transceivers 1000BASE-X Fiber Transceivers, 1000BASE-T Copper Transceivers 10/100/1000BASE-T SGMII Copper Transceivers 100/1000/2.5G/5G/10GBASE-T Multi-rate Copper Transceivers</p>
Cable Types	<p>Copper: Twisted-pair cable up to 100 meters 10BASE-T: 4-pair UTP Cat 3, 4, 5, 5e, 6, 6A 100BASE-TX: 4-pair UTP Cat 5, 5e, 6, 6A 1G/2.5G: 4-pair UTP Cat 5e, 6, 6A, 7 5G: 4-pair UTP Cat 6, 6A, 7 10G: 4-pair UTP Cat 6A, 7</p> <p>Fiber: Multimode: 50/125, 62.5/125µm Single-mode: 9/125µm</p>
DC Power Requirements	+12 to +57VDC; 0.82A @ 12VDC 0.21A @ 48VDC 2 Pin Terminal (isolated)
Dimensions (W x D x H)	1.5" x 5.2" x 5.5" (38.1 mm x 132.1 mm x 139.7 mm)
Weight	1.70 lb. (772 grams)
Operating Temperature	Industrial: -40 to 75°C Storage: -40 to 80°C
Humidity	5 to 95% (non-condensing)
Altitude	-100m to 4,000m (operational)
MTBF (hours)	239,000
Warranty	5 year product warranty with 24/7/365 free Technical Support

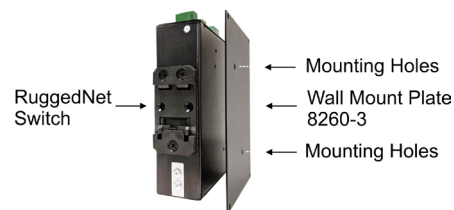
ORDERING INFORMATION

RuggedNet 10GMG/Si Models	
Model Number	Description
9660-0-14-2Z	10GMG/Si - 1 x SFP+ + 2 x 100/1G/2.5G/5G/10G RJ-45 ports + 2 x 10/100/1000 RJ-45 ports, dual power inputs (2-pin terminal block), industrial temperature range -40 to 75°C
9660-1-14-2Z	10GMG/Si - 1 x 100/1G/2.5G/5G/10G RJ-45 + 2 x 100/1G/2.5G/5G/10G RJ-45 ports + 2 x 10/100/1000 RJ-45 ports, dual power inputs (2-pin terminal block), industrial temperature range -40 to 75°C

Contact Omnitron for other fiber options. Order the appropriate SFPs separately. [Visit the Omnitron Optical Transceivers web page.](#)

ACCESSORIES

Model Number	Description
8260-3	Wall Mounting Plate
8260-0	19" rack mount shelf



Wall Mount Plate used to wall or rack mount the RuggedNet switch



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