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 featuring one 1/10G SFP/SFP+ or multi-gigabit/multi-rate RJ-45 uplink port with two multi-gigabit/multi-rate RJ-45 and two 10/100/1000 RJ-45 downlink/access ports. The RJ-45 user ports support multi-gigabit/multi-rate speeds of 100Mbps, 1Gbps, 2.5Gbps, 5Gbps and 10Gbps.

The RuggedNet 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, 2.5GBASE-T, 5GBASE-T and 10GBASE-T copper transceivers and 1G and 10G multimode or single-mode fiber, dual or single-fiber transceivers in standard, CWDM and DWDM wavelengths.
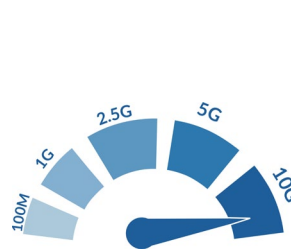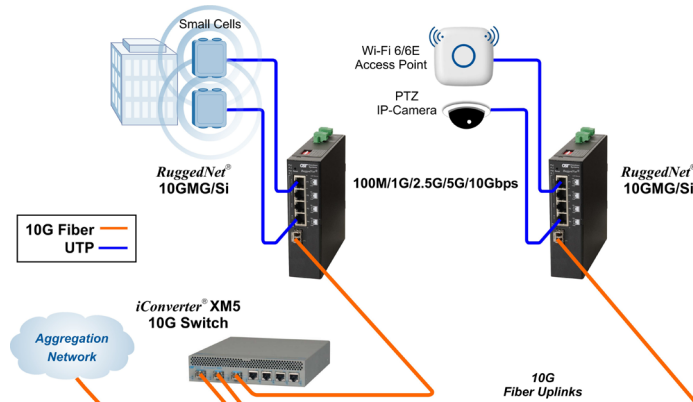
All models support Directed Switch mode, which directs multicast traffic (such as video) only to the appropriate uplink port, preventing multicast traffic from flooding other network ports.

The 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 RuggedNet compact industrial Ethernet 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

■ One SFP/SFP+ transceiver uplink port or multi-gigabit/multi-rate copper port

■ SFP/SFP+ uplink port supports copper and fiber 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

■ Supports jumbo frames up to 10,240 bytes

■ Directed Switch mode AKA Camera mode to prevent port flooding

■ AC to DC Power Adapter or 2-Pin DC terminal

■ Wall, Rack and DIN-rail mountable

■ Industrial (-40 to 75º C) operating temperature

■ TAA, BAA and NDAA compliant, and Made in the USA
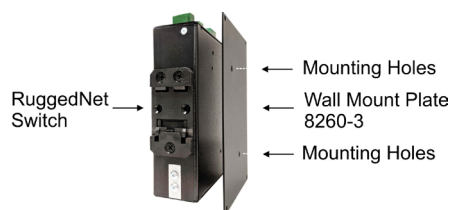
■ Free 24/7/365 Technical Support

SPECIFICATIONS

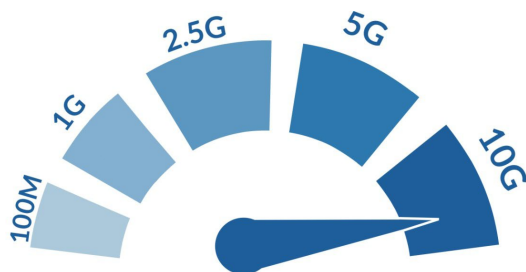| Description	RuggedNet® 10GMG/Si Unmanaged Industrial 10Gigabit Multi-Gigabit/Multi-Rate Ethernet Switch
Standard Compliances	IEEE 802.3

Regulatory Compliances (Pending)	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
	EMC: EN 55032/24 CE Emissions/Immunity,
	             IEC 61000-6-4 Industrial Emissions,
	             IEC 61000-6-2 Industrial Immunity
	EMI: CISPR 32,
	             FCC 47 Part 15 Subpart B Class A
	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)
	IP Rating: IP40 Protection
	ACT: TAA, BAA, NDAA

Environmental	REACH, RoHS and WEEE
Frame Size	Up to 10,240 bytes

Port Types	Copper: 100/1000BASE-T, 2.5GBASE-T/5GBASE-T/10GBASE-T (RJ-45)
	              10/100/1000BASE-T (RJ-45)
	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

Cable Types	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
	Fiber: Multimode: 50/125, 62.5/125μm
	             Single-mode: 9/125μm

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

OST Omnitron Systems

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

Mounting Holes

RuggedNet Switch → Wall Mount Plate 8260-3

Mounting Holes

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

100M/1G/2.5G/5G/10Gbps

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