

SEMPER-XSE

Easy Web Managed Industrial Ethernet Switches M12 IP65/67
Fast & Gigabit Ethernet

DHCP Client
QoS
IP Settings
MAC Address Table
Configuration
SAVE/LOAD
User Management
Port Settings
Web Snooping + Querier
IGMP
Single pair Ethernet
Port Mirroring
Port Statistics
Bandwidth Control
VLAN
Network
Firmware Update
Factory Reset



Cabinet-free networking directly in the field: Easy-Web-Managed with Gigabit-Uplink-Ports

- ▶ Industrial Easy-Web-Managed
- ▶ Flexible use with 24 VDC
- ▶ Ultra-compact, ruggedized design
- ▶ Temperature range -40 to +70°C
- ▶ IP65/67 metal housing
- ▶ M12 Gigabit Ethernet Port
- ▶ DIN EN 50155 rail compliant
- ▶ PROFINET suitable

The ultra-compact M12 IP65/67 Easy Web Managed Industrial Ethernet Switches efficiently and reliably network all applications in harsh industrial environments as well as in rail and commercial vehicles. Thanks to the wide temperature range, high shock and vibration resistance, and robust metal housing, the NITE-XS can be installed directly in the field outside of control cabinets. Variants with X-coded M12 Gigabit ports provide ample bandwidth reserves for demanding applications. The extensive management features include VLAN, QoS, IGMP snooping, as well as diagnostic and statistical functions to optimally manage your network. Excellent EMC performance and fire protection in accordance with DIN EN 45545 make the NITE-XS Ethernet switches fully rail-compliant and meet the requirements of DIN EN 50155.

General

Switch: IEEE802.3 Store and Forward; non-blocking wire speed
Auto-Negotiation, Auto-MDI-X, Auto-Polarity: Yes
Frame size: 1,522 Bytes
MAC table size: 2,000 addresses
Quality of Service: Yes – 8 priority queues
Energy Efficient Ethernet: Yes, configurable
Flow Control: Yes, configurable
PROFINET suitable: Yes, configurable

Port count (X-cod. + D-cod.) **1+4**

MTBF (SN 29500, Mio. h) -

Power supply / electronics

Nominal voltage: Vin 24 VDC
Permitted voltage range: 9 to 36 VDC
Connection type: Vin M12 A-cod. (+ -) | M4 thread drill hole (FE)
Supply circuit: SELV DIN 60950 (circuit breaker 10 A)
Redundant power supply: No
Inrush current limiter: No
Input fuse: Yes, Interrupting rating 50 A @ 125 VAC/VDC
Polarity protection: Yes
Power failure bridging: 10 ms DIN 50155
PCB Conformal Coating: Yes
Protection category: III
Isolation: 1.5 kVDC Vin ↔ Ethernet Ports | 2 kVDC Vin ↔ housing

Port count (X-cod. + D-cod.) **1+4**

Power consumption (W)

Idle | full load 0,5 | 2,0

Input current (mA)

Idle | full load 20 | 80

Mechanical properties

Housing material: Nickel-plated aluminium, stainless steel
Mounting: M6 hole for wall mounting, round head screw
IP Protection class (operation): IP65/67

Port count (M12) **1+4**

Width (mm) 55

Height (mm) 117

Depth (mm) 26,8

Weight (g) 250

Management features

Configuration via Web-Interface:

Device Information, IP Settings, DHCP Client, Port Settings, VLAN QoS, IGMP Snooping, Port Mirroring, Bandwidth Control, MAC Address Tabel, Port Statistics, Configuration SAVE/LOAD, Firmware Update

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Ethernet Interfaces

IEEE Standards: 802.3 10BaseT, 100BaseT(x), 1000BaseT
Isolation: 1 kVDC Eth. Port ↔ housing | 2 kVDC Port ↔ Port
Connection type: M12 D-coded, M12 X-coded
Port count | Speed: 4 | 10/100 Mbit/s + 1 | 10/100/1000 Mbit/s
Cable length: 100 m (Twisted Pair, 0.14 mm² - 0.22 mm², Cat 5)

EMC and environmental specifications

Operating temperature: -40°C to +70°C
Storage temperature: -40°C to +85°C
Relative humidity (operation): 0%-95% (not condensing)
Relative humidity (storage): 0%-95% (not condensing)
Atmospheric pressure (operation): 2,000 m (795 hPa)
EMC immunity: DIN EN - 50121-3-2, 61000-6-2, 55024
EMC radiated emission: DIN EN - 50121-3-2, 61000-6-4, 55032
Mechanical stability: DIN EN 61373
Fire protection: DIN EN 45545

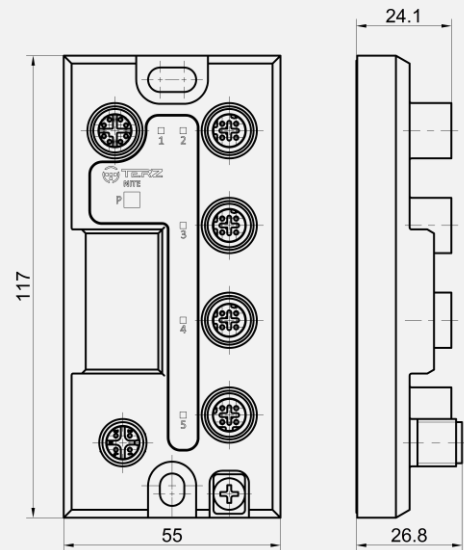
Approvals and certifications

CE, DIN EN 50155, DIN EN 60950-1

Status and diagnostic indicators

LED: Power | Link/Activity/Speed per Port

Drawing



Products

Article	Art.-No.	Specification
SEMPER-XSE41-6100	4613100	4xM12 FE+1xM12 GE, Managed

