

SWD-I-8TX SWD-H-8TX SWD-HE-8TX

Characteristics

Ethernet

- IEEE: 802.3, 802.3u, 802.3x

Hardened design

- -I models
 - > industry temperature range -20 to +60 °C
 - > industry EMI EN61000-6-2
- -H models
 - > extended temperature range -40 to +75 °C
 - > industry EMI EN61000-6-2
- -HE models
 - > extended temperature range -40 to +75 °C
 - > Railway and Electric substation EMI : EN61000-6-2, EN50121-4, IEC61850 and IEEE 1613

Benefits

- Easy installation and operation
- WDM option
- Dry relay contacts
- DIN rail mounting
- 12 to 48 Vdc redundant power supply
- Robust metallic enclosure
- Designed for harsh environments

On option

- 19" mounting kit

Unmanaged ruggedized Ethernet Switch

SWD-I/H/HE-8TX is an unmanaged ruggedized Ethernet switch designed for most stringent industry environments, railway infrastructures or Electric Substations.

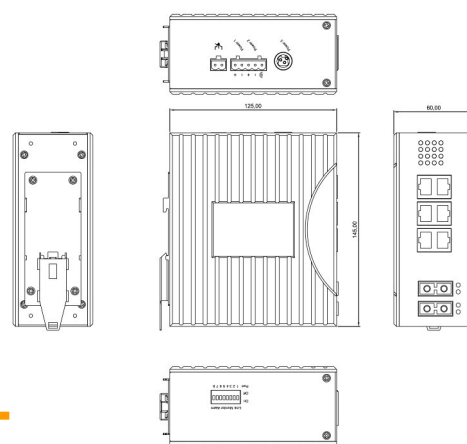
SWD-I/H/HE-8TX comes in a robust and IP30 aluminum enclosure. It is made of industry grade components to operate over a wide -20 to +60 °C (-I models) or even extended -40 to +75 °C (-H and -HE models) temperature range and even up to +85 °C for limited periods of time.

SWD-I/H/HE-8TX is not only shock and vibration resistant, but also it complies with the most severe Electromagnetic Immunity standards for industry grade installation (-I and -H models) or for railway infrastructures (EN 50121-4) and Electric Substations (IEC 61850 and IEEE 1613) (-HE models).

SWD-I/H/HE-8TX is offered with a choice of 10/100BaseT copper interfaces and optical ports for 2 km Multi-Mode and 20 km long range Single-Mode fibers also with single fiber WDM option.

SWD-I/H/HE-8TX is made for DIN rail mounting with good resistance to vibrations and shocks. It can be mounted in a 19" shelf through an optional mounting kit.

SWD-I/H/HE-8TX has two redundant power supply inputs with 12 to 48 Vdc range (12-30 Vdc for -I models). It has also a 12 Vdc power backup input.



APPLICATIONS

- Manufacturing plant
- Video surveillance
- SCADA / RTU
- Uncontrolled temperature locations (-H and -HE models)
- Railway, Tramway infrastructure (-HE models)
- Electric substation, Utility Production, Distribution and Transport network (-HE models)

8 Ports ruggedized Ethernet Switch

SPECIFICATIONS

- **Standards**
 - IEEE 802.3 10Base-T
 - IEEE 802.3u 100Base-TX/FX
 - IEEE 802.3x Flow Control
- **Ethernet ports**
 - 6 or 8x 10/100Base-TX Ethernet ports
 - MDI/MDI-X detection on RJ45 ports
 - 10/100Mbps Full/Half-duplex and flow control
 - Auto-Negotiation
 - 0, 1 or 2x 100FX ports with fixed optical interface
 - Multi-Mode or Single-Mode options
 - MM with 2 km range,
 - SM with 20 km range,
 - SM single fiber WDM with 20 km range
- **Switching performance**
 - 14,880 pps at 10 Mbps
 - 148,810 pps at 100 Mbps
- **Switching**
 - Full wire speed forwarding rate
 - Store and forward
 - MAC address memory: 2,048 addresses
 - Frame Buffer : 448 kbits
- **Alarm relay**
 - 1x relay with 1 A / 24 Vdc switching current
- **Power supply**
 - Two redundant power supply inputs, 12 to 48 Vdc range - 12 to 30 Vdc range for -i models
 - Terminal block
 - 12 Vdc backup input, jack socket
 - Reverse polarity protection
 - Max power consumption: 6W (0,6 A/12v; 0,25A/24V; 0,125A/48V)
- **Temperature range**
 - i models : -20 to +60 °C
 - H and -HE models:
 - Operating: -40°C to +75°C, tested at 85 °C
 - Stocking: -40°C to +85°C
- **Hygrometry**
 - Operating: 5% to 95% RH
 - Stocking: 5% to 95% RH
- **Safety standards**
 - UL 508, EN 60950-1, IEC 60950-1
- **Electromagnetic standards**
 - FCC Part 15, Class A
 - EN61000-6-2
 - EN61000-4-2
 - EN61000-4-3
 - EN61000-4-4
 - EN61000-4-5
 - EN61000-4-6
 - EN61000-4-8
- **Environmental standards**
 - IEC60068-2-6 Fc (Vibration)
 - IEC60068-2-27 Ea (Shock)
 - IEC60068-2-32 Ed (free fall)
 - NEMA TS1/2 Intelligent Transport Systems
 - IEC61850-3 & IEEE1613 electric substation
 - EN50121-4 railway
- **Dimensions**
 - 60 x 125 x 145 mm (WxDxH)
 - Aluminum enclosure
 - Protection IP30
- **Weight**
 - 0.8 kg
- **Installation**
 - DIN rail, panel mounting, 19" mounting kit
- **Light indicators**
 - Power input 1/2/3/fault
 - Per Ethernet port: Link/activity and 100Mbps
- **MTBF**
 - 200.000 hours

Smart Solutions for
Smart Networks

www.cxr.com

PRODUCT REFERENCE

Model	10/100BT	100FX	EN 61000-6-2	EN 50121-4	IEC 61850	T°C range	Power input
SWD-I-8TX	8	-	Yes	-	-	-20 +60 °C	12 - 30 Vdc
SWD-I-6TX-2FM	6	2 MM 5km	Yes	-	-	-20 +60 °C	12 - 30 Vdc
SWD-I-6TX-2FS20	6	2 SM 20 km	Yes	-	-	-20 +60 °C	12 - 30 Vdc
SWD-H-8TX	8	-	Yes	-	-	-40 +75 °C	12 - 48 Vdc
SWD-H-6TX-2FM	6	2 MM 5 km	Yes	-	-	-40 +75 °C	12 - 48 Vdc
SWD-H-8TX-FS20	8	1 SM 20 km	Yes	-	-	-40 +75 °C	12 - 48 Vdc
SWD-HE-8TX	8	-	Yes	Yes	Yes	-40 +75 °C	12 - 48 Vdc
SWD-HE-6TX-FM	6	1	Yes	Yes	Yes	-40 +75 °C	12 - 48 Vdc
SWD-HE-6TX-FM5-W13	6	1	Yes	Yes	Yes	-40 +75 °C	12 - 48 Vdc
SWD-HE-6TX-FM5-W15	6	1	Yes	Yes	Yes	-40 +75 °C	12 - 48 Vdc
SWD-HE-6TX-FS20	6	1	Yes	Yes	Yes	-40 +75 °C	12 - 48 Vdc



CXR Anderson Jacobson
Rue de l'Ornette
28410 Abondant - France

T +33 (0) 237 62 87 90
F +33 (0) 237 62 88 01
email: contact@cxr.com