automatedcontrol

SENSE I MONITOR I CONTROL

Technical data
MTL industrial network solutions

December 2020
EPS 9476-ET(G)Rev 2

9476-ET(G)

Intrinsically Safe Gigabit Ethernet 6 Port Managed Switch

- **Intrinsically Safe ATEX / IECEx Certification**

- **6 Port Switch 10/100/1000Mbps LAN**

- **6x Gigabit Ports or Mixed Gigabit and 10/100 PoEx Versions**

- **CPU Management Feature**

- **Compact dimensions (W: 42 x H: 160 x D: 140 mm)**

- **Ex ia IIB T4 Ga, [Ex ia Da] IIIC (non-mining), Ex ia I Ma (M1 mining).**

- **Ta = -40ºC to +70ºC**

- **Zone 1 / Zone 21 mounting (Zone 0 / Zone 20 with a suitable Ex ia Power Supply)**

The 9476-ET(G) is an Intrinsically Safe (IS) 6-Port Managed Ethernet Switch suitable for Zone 1 / Zone 21 mounting, **(Zone 0 / Zone 20 with a suitable Ex ia Power Supply).**

The 6x RJ45 (LAN) ports support 10/100/1000 IS Ethernet connections. Available in 6 Port Gigabit and also Mixed Gigabit and 10/100 + PoEx versions to suit various applications.

Power (12V DC) is supplied to the module locally along with **Power over Ethernet** (PoEx) for the connected devices where required.

Note: PoEx not available on Gigabit ports

The compact and cost effective design makes it the ideal choice for many applications:

Petrochem -	Process Monitoring & Control...
Mining -	Underground Communication Links,PLC and Machine Monitoring…

Electrical connections are via cage-clamp and/or screw type plug/socket terminals along with RJ45 type connectors for the Ethernet LAN ports.

9476-ET(G)

December 2020

SPECIFICATION

Power supplies
　12VDC IS Power Supply Input
　PoExTM (Power over IS Ethernet)
　Typically 12V @ 350mA (Inrush < 400mA)
　Ui = 15.4V
　9492-PS-PLUS recommended

Ethernet
　Intrinsically Safe 10/100/1000Base-T
Connector
　RJ45 (x6)
Cable Length
　Up to 100m Cat5e
PoEx
　Power Source

SAFETY

Location of Unit
　Zone 1, IIB T4 hazardous area (9476-ETG)
　Zone 1, IIC T4 hazardous area (9476-ET)

Certification Code
　Ex ia IIB T4 Ga (9476-ETG versions)
　Ex ia IIC T4 Ga (9476-ET)
　[Ex ia Da] IIIC T135°C (non-mining)
　Ex ia I Ma (M1 mining)
　Ta = -40°C to +70°C

Certificate numbers
　CML 19ATEX2414X
　IECEx CML 19.0150X
　IECEx ExTC 20.0019X

See certificates for further information

ENVIRONMENTAL

Operating Temperature
　-40°C…+70°C
Storage Temperature
　-40°C…+70°C

Humidity
　0…95% RH, non-condensing
Ingress Protection
　Select enclosure to suit application,
　see certificates for information

MECHANICAL

Width	42mm
Height	160mm
Depth	140mm
Weight	1500g
Mounting	Din Rail

LED INDICATORS

	OFF	FLASH	ON
PWR (green)	Power Fail	N/A	Power OK
WDG (red/green)	Fault	Green- Healthy (10Hz)	Fault
STAT (red/green)	N/A	Green – Identify module mode	Red (fault) Green (healthy)
RJ45 ACT (yellow)	Ethernet link disconnected	Ethernet link activity	Ethernet link connected
RJ45 1000 (green)	10/100Mbps	N/A	1000Mbps

9476-ET(G)
December 2020

DATA & POWER TERMINALS

Power & External LEDs (CON1)

Pin	Function	Pin	Function
1	Power In +12V	2	Power In 0V
3	LAN3 PoEx +12V	4	LAN3 PoEx 0V
5	LAN4 PoEx +12V	6	LAN4 PoEx 0V
7	LAN5 PoEx +12V	8	LAN5 PoEx 0V
9	LAN6 PoEx +12V	10	LAN6 PoEx 0V
11	0V	12	0V
13	LAN1 LED	14	LAN2 LED
15	LAN3 LED	16	LAN4 LED
17	LAN5 LED	18	LAN6 LED

- LEDS wire between LED terminal and 0V (no resistor required)

LAN (RJ45)
10/100/1000 BASE-T Ethernet

Pin	10/100 Function	Gigabit Function
1	Tx +	BI_DA+
2	Tx-	BI_DA-
3	Rx +	BI_DB+
4	PoEx +12V*	BI_DC+
5	PoEx +12V*	BI_DC-
6	Rx-	BI_DB-
7	PoEx 0V*	BI_DD+
8	PoEx 0V*	BI_DD-

*Note - PoEx only on LAN3-6 ports when 10/100

PoEx not available on Gigabit ports

ORDERING INFORMATION

Part Number	Description	Comments
9476-ETG	**6 Port Gigabit Ethernet Switch (6x Gigabit)**	**Standard**
9476-ET2G	**2+4 Port Gigabit Ethernet Switch (2x Gigabit + 4x 10/100 PoEx)**	**Standard**
9476-ET3G	3+3 Port Gigabit Ethernet Switch (3x Gigabit + 3x 10/100 PoEx)	Special Order
9476-ET4G	4+2 Port Gigabit Ethernet Switch (4x Gigabit + 2x 10/100 PoEx)	Special Order
9476-ET	6 Port Ethernet Switch (6x 10/100 4x PoEx)	Special Order

Note: Special order items may incur a minimum order quantity