

Technical data
MTL industrial network solutions

April 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: 40 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 = -40°C to +70°C**
- **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.



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SPECIFICATION

Power supplies

12VDC IS Power Supply Input
PoEx™ (Power over IS Ethernet)
Typically 12V @ 350mA
U_i = 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, IIBT4 hazardous area (9476-ETG)
Zone 1, IICT4 hazardous area (9476-ET)

Certification Code

Ex ia IIBT4 Ga (9476-ETG versions)
Ex ia IICT4 Ga (9476-ET)
[Ex ia Da] IICT135°C (non-mining)
Ex ia I Ma (M1 mining)
T_a = -40°C to +70°C

Certificate numbers

CML 19ATEX2414X
IECEX CML 19.0150X
IECEX (QLD pending)

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	40mm
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

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

Note: Special order items may incur a minimum order quantity



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