

# 9476-ET(G)

## Intrinsically Safe Gigabit Ethernet 6 Port Managed Switch

- Intrinsically Safe ATEX / UKEX / IECEx Certification / North America (MET<sub>C/US</sub>) approvals
- 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 = -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:

<b>Petrochem -</b>	Process Monitoring & Control...
<b>Mining -</b>	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 (Inrush < 200mA)  
U<sub>i</sub> = 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<sub>a</sub> = -40°C to +70°C

### Certificate numbers

CML 19ATEX2414X  
IECEX CML 19.0150X  
IECEX ExTC 20.0019X  
CML 21UKEX21072X

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

<b>Width</b>	42mm
<b>Height</b>	160mm
<b>Depth</b>	140mm
<b>Weight</b>	1500g
<b>Mounting</b>	Din Rail

## LED INDICATORS

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

## 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**



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