OPSWAT.

METADEFENDER™

Optical Diode XE

Physically Block Cyberattacks

MetaDefender Optical Diode XE was designed from the ground up for industrial and rugged applications needing an affordable, stable, easy-to-use solution that physically keeps attackers away from protected networks and equipment.



Key Features



Transmit data in a physically-enforced, one-way fashion



Connect to equipment without propriety external servers of software



Send files and data between segmented networks using TCP, UDP, SFTP, and FTP



Obtain data feeds previously out of reach due to cybersecurity concerns



Stream industrial Modbus or BACnet data



Rapidly bring equipment into the industrial IoT



Convert legacy industrial data to modern JSON formats

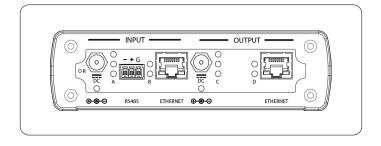


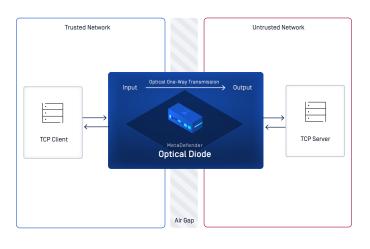
Designed and manufactured in the USA

METADEFENDER OPTICAL DIODE

Optical Diode XE

Ethernet





Additional Features

- Denial of Service (DOS) Protection
- Anti-Tamper Protection
- Power Loss/Fluctuation Protection
- Field Configurable
- Optional Secure Hosting of Data in AWS Cloud
- ETL Listed (US, EU, Canada)
- CE. RoHS
- Full optical isolation with independent grounding of each side of the diode

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Protecting the World's Critical Infrastructure

Specifications			
Maximum Data Throughout ¹	XE5 XE15	5.0 Mbps 15.0 Mbps	
Dimensions	5.1 x 5.8 x 1.6" [130 x 147 x 41mm]		
Weight	1.25 lb (.57kg)		
Isolation Technology	Optical		
Provided Power Supplies	100-240VAC 1.0A in, 12VDC 1.5A out ²		
Voltage	12-48 VDC		
Diode Power Consumption (max)	4.0 W		
Design Operating Temperature Range	- 22 to 158°F (-30 to 70°C)		
Connections			
Input Side	DC Barrel Jack (0.D. 5.5mm, I.D. 2.1mm, L 9.5mm, Center Positive Polarity) Ethernet RJ-45 Serial RS-485 Combicon MC connector		
Output Side	DC Barrel Jack (0.D. 5.5mm, I.D. 2.1mm, L 9.5mm, Center Positive Polarity) Ethernet RJ-45		
Protocols Supported	SFTP, FTP, FTPS ³ UDP, TCP, TLS ⁴ Modbus Serial (in), Modbus TCP BACnet-MSTP (in), BACnet-IP (in) LON-IP (in)		

Fend Cloud Features⁵

Send data securely to cloud-based platform

Monitor the status of diodes remotely via web-based app

MQTT [Fend Cloud on AWS]5

Connect with third-party analytics providers using API

1. Data throughput may vary depending on network conditions, protocol, and application. FTPS and TLS maximum speed 4Mbps. SFTP maximum speed 2.8Mbps. Supported serial baud rates: 9600, 19200, 36400, 57600, 115200. 2. Customers can provide their own power supply as long as the output meets the input ratings of the diode. The MetaDefender Optical Diode is designed to be installed in industrial settings such as equipment rooms, control rooms, and IT closets where only adults are normally present.

- 3. Supports Linux and Windows. Tested with Windows and Linux native FTP, WinSCP, XL Reporter, and CoreFTP.
- 4. Supports TLS versions 1.0 to 1.2
- 5. Requires subscription to Fend Cloud service.