DATASHEET

#### METADEFENDER™

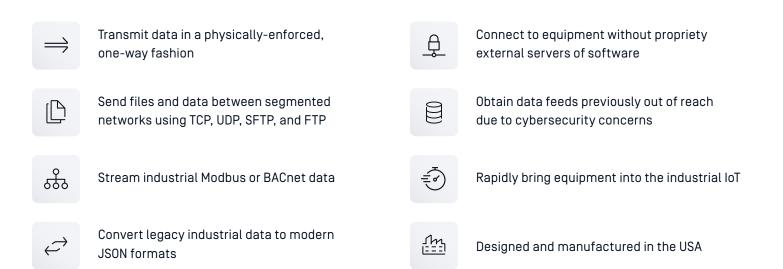
# **Optical Diode SE**

## Physically Block Cyberattacks

MetaDefender Optical Diode SE 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.



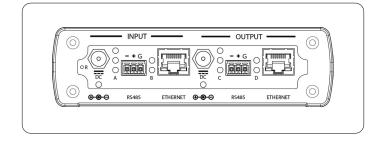
## **Key Features**

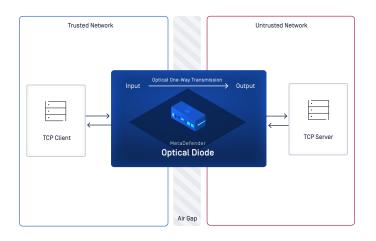


#### METADEFENDER OPTICAL DIODE

## Optical Diode SE

Ethernet + Serial





## **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

#### Specifications

Specifications		
Maximum Data Throughout <sup>1</sup>	SE5 SE15	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 <sup>2</sup>	
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. L 9.5mm, Center Pos	
	Ethernet RJ-45 Serial RS-485 Combi	con MC connector
Output Side	DC Barrel Jack (0.D. L 9.5mm, Center Pos	
	Ethernet RJ-45	
	Serial RS-485 Combi	con MC connector
Protocols Supported	Serial RS-485 Combi SFTP, FTP, FTPS <sup>3</sup> UDP, TCP, TLS <sup>4</sup> Modbus Serial, Modb BACnet-MSTP (in), B/ LON-IP (in) MQTT (Fend Cloud or	uus TCP ACnet-IP (in)
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Connect with third-party analytics providers using API

 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.
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 10 to 12

5. Requires subscription to Fend Cloud service.

OPSWAT.

Protecting the World's Critical Infrastructure

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