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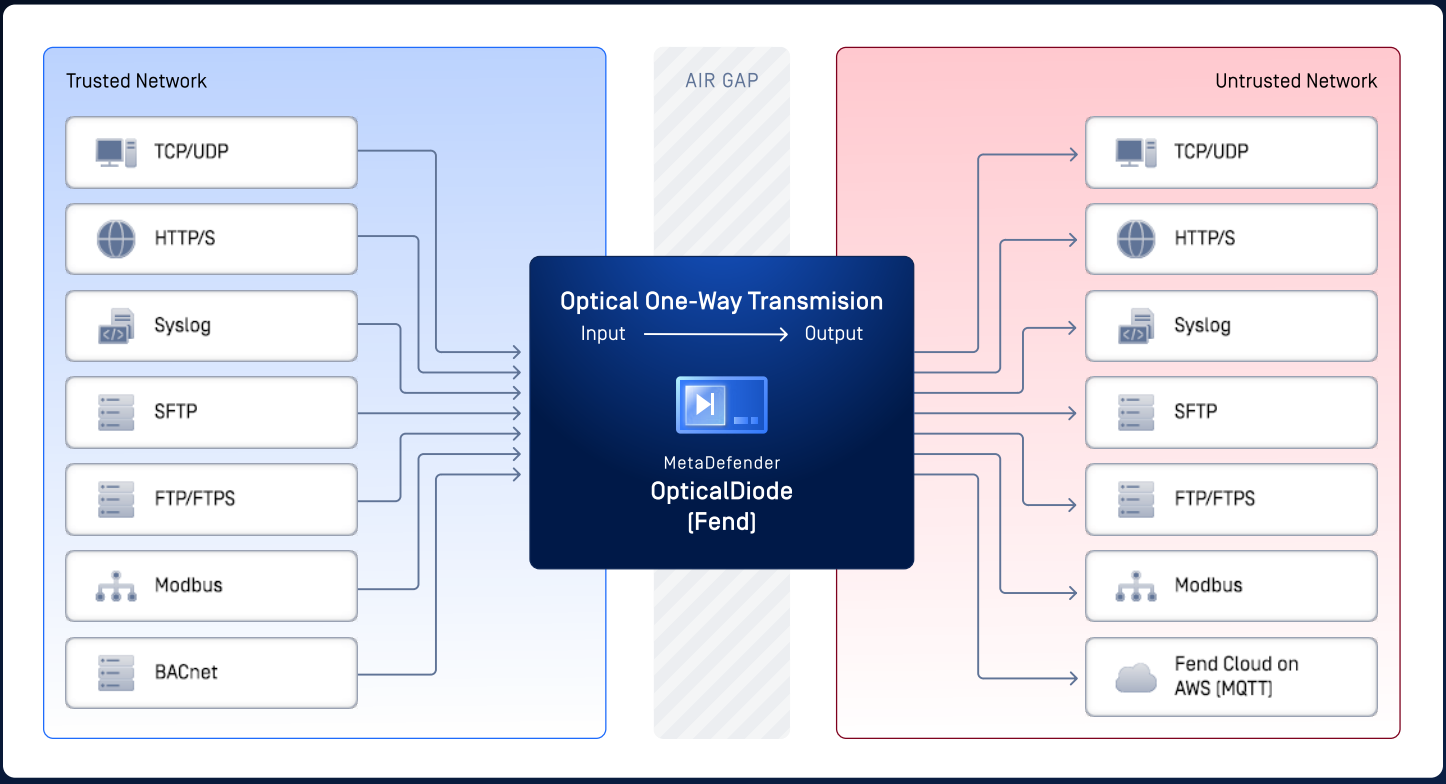
PROTOCOL SHEET

METADEFENDER™

Optical Diode XE, SE, and CE

This protocol sheet outlines supported data transfer protocols and specifications for MetaDefender Optical Diode models XE5, XE15, XE50, SE5, SE15, CE5, and CE15 within the Fend series.

Protocol Options



MetaDefender Optical Diode (Fend)
One-way communication diodes allow data to be sent securely from protected networks, increasing operational visibility and keeping threats out.

Protocol Combinations for 5, 15 and 50 Series - By Output

Input		Output		Models
Ethernet	TCP Server	Ethernet	TCP Client	All Models
Ethernet	UDP Server			
Ethernet	TLS over TCP Server			
Ethernet	TCP Server	Ethernet	UDP Client	All Models
Ethernet	UDP Server			
Ethernet	TLS over TCP Server			
Ethernet	TLS over TCP Server	Ethernet	TLS over TCP Client	All Models
Ethernet	HTTP Server	Ethernet	HTTPS Client	XE50
Ethernet	HTTPS Server			
Ethernet	HTTP Server	Ethernet	HTTP Client	XE50
Ethernet	Syslog (over UDP or TCP)	Ethernet	Syslog (over UDP or TCP)	All Models
Ethernet	SFTP Server	Ethernet	SFTP Client	All Models
Ethernet	FTP Server	Ethernet	FTP Client	All Models
Ethernet	FTPS Server	Ethernet	FTPS Client	All Models
Ethernet	Modbus TCP Master/Client	Ethernet	Modbus TCP Slave/Server	All Models
RS485	Modbus RTU Master/Client			
Ethernet	Modbus TCP Master/Client	Ethernet	MQTT Client (Fend Cloud-AWS) TCP Client (JSON)	All Models
RS485	Modbus RTU Master/Client			
Ethernet	BACnet IP (Listen)			
RS485	BACnet MSTP (Listen)			
Ethernet	LON IP (Listen)			
Ethernet	Modbus TCP Master/Client	RS485	Modbus RTU Slave/Server	SE5/SE15 Only
RS485	Modbus RTU Master/Client			
Ethernet	Modbus TCP Master/Client	Cellular	MQTT Client (Fend Cloud-AWS)	CE5/CE15 Only
RS485	Modbus RTU Master/Client			
Ethernet	BACnet IP (Listen)			
RS485	BACnet MSTP (Listen)			
Ethernet	LON IP (Listen)			

Protocol Combinations for 5, 15 and 50 Series - By Input

Input		Output		Models
Ethernet	TCP Server	Ethernet	TCP Client	All Models
			UDP Client	
Ethernet	UDP Server	Ethernet	TCP Client	All Models
			UDP Client	
Ethernet	TLS over TCP Server	Ethernet	TLS over TCP Client	All Models
		Ethernet	TCP Client	
		Ethernet	UDP Client	
Ethernet	HTTPS Server	Ethernet	HTTPS Client	XE50
		Ethernet	HTTP Client	XE50
Ethernet	HTTP Server	Ethernet	HTTP Client	XE50
Ethernet	Syslog (over UDP or TCP)	Ethernet	Syslog (over UDP or TCP)	All Models
Ethernet	SFTP Server	Ethernet	SFTP Client	All Models
Ethernet	FTP Server	Ethernet	FTP Client	All Models
Ethernet	FTPS Server	Ethernet	FTPS Client	All Models
Ethernet	Modbus TCP Master/Client	Ethernet	Modbus TCP Slave/Server	All Models
		RS485	Modbus RTU Slave/Server	SE5/SE15 Only
		Ethernet	MQTT Client (Fend Cloud-AWS) TCP Client (JSON)	All Models
		Cellular	MQTT Client (Fend Cloud-AWS)	CE5/CE15 Only
RS485	Modbus RTU Master/Client	Ethernet	Modbus TCP Slave/Server	All Models
		RS485	Modbus RTU Slave/Server	SE5/SE15 Only
		Ethernet	MQTT Client (Fend Cloud-AWS) TCP Client (JSON)	All Models
		Cellular	MQTT Client (Fend Cloud-AWS)	CE5/CE15 Only
Ethernet	BACnet IP (Listen)	Ethernet	MQTT Client (Fend Cloud-AWS) TCP Client (JSON)	All Models
		Cellular	MQTT Client (Fend Cloud-AWS)	CE5/CE15 Only
RS485	BACnet MSTP (Listen)	Ethernet	MQTT Client (Fend Cloud-AWS) TCP Client (JSON)	All Models
		Cellular	MQTT Client (Fend Cloud-AWS)	CE5/CE15 Only
Ethernet	LON IP (Listen)	Ethernet	MQTT Client (Fend Cloud-AWS) TCP Client (JSON)	All Models
		Cellular	MQTT Client (Fend Cloud-AWS)	CE5/CE15 Only

OPSWAT Product Integrations

	5 Series	15 Series	50 Series
OPSWAT Screen View	✓	✓	✓
OPSWAT OPC DA Connector	✓	✓	✓
MetaDefender Managed File Transfer	✗	✗	✓
MetaDefender Kiosk	✗	✗	✓

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