

- The OSM-5001 acts as a serial pass-through between a TCP socket on an Ethernet network, and an RS-485 OSDP network
- Use the Bridge to connect an OSDP reader to an access controller on an Ethernet network
- Allows a secure connection between IT and access control by bridging SIA's Open Supervised Device Protocol (OSDP™) and the internet
- Small footprint, single chip, fault tolerant solution with pluggable terminal block wiring.
- Fully compatible with OSDP v2



SIA's Open Supervised Device Protocol (OSDP) v2.2.0 communication standard benefits

- **Security:** OSDP Secure Channel halts Wiegand hacking with AES-128 encryption
- **Interoperability:** Mix-and-match devices to help future-proof systems
- **Functionality:** 2-way communication, access control that withstands the elements, multi-drop installations, 2 wires instead of 10+
- **Communication:** With OSDP's 2-way communication, the panel can query readers to find out capabilities, without physically reconfiguring devices. The panel is alerted if the reader does not answer its query.
- **Savings:** OSDP is scalable. It supports many more devices – and many more types of devices (such as readers, strike sensors and alarms) – than the Wiegand protocol.

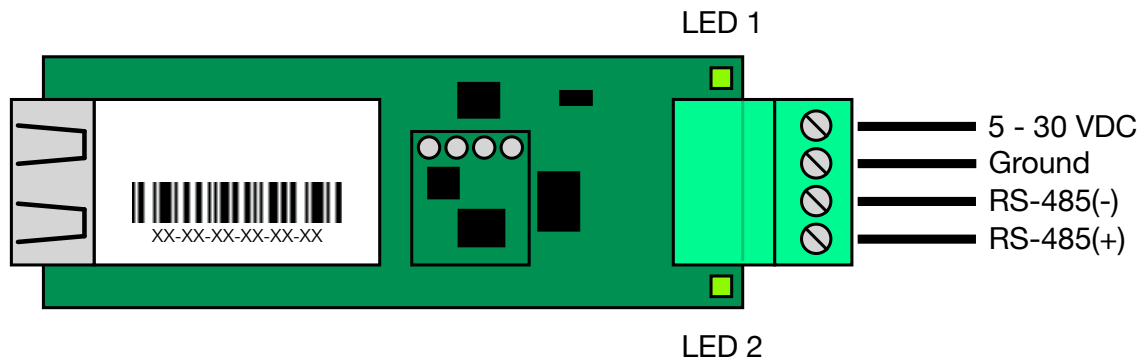
Learn more at OSDP-Connect.com or CypressIntegration.com/OSDP



OSM-5001 190603

Overview: The OSM-5001 allows an Ethernet based network controller to control OSDP devices on an RS-485 OSDP network. The payload of the TCP/IP data packets sent by the network controller are the OSDP messages, the OSM-5001 removes the payload and sends it out to the RS-485 network. Responses from the OSDP devices are then received by the OSM-5001 where they are put into TCP/IP packets as the payload and sent out to the Ethernet network.

Specifications		
Ordering Information	OSM-5001	UPC:816684002380
OSDP Version	Conforms to Open Supervised Device Protocol (OSDP™) v2.2.0 and IEC Committee Draft Version 60839-11-5	
Physical	3.25 x 0.7 x 0.9 inches / .05 lbs. (8.25 x 1.77 x 2.28 cm / 22.67 g)	
Environmental	Storage Temperature	-40°C to 85°C
	Operating Temperature	-30°C to 85°C
Electrical	Supply Voltage	5 - 30 Vdc @ 100mA
Cable Requirements	Ethernet Connection	CAT 5E Cable
	OSDP	22 AWG Shielded Twisted Pair



Network Settings:

The OSM-5001 will accept one socket connection at a time on port 10001. On power-up, it will request to be issued a network address via DHCP. If the OSM-5001 does not receive an appropriate DHCP configuration, it will randomly self-assign a network address in the 169.254.0.0/16 subnet. The default DHCP Host Name is “OSM5001-XXXXXX”, where X is the last 6 digits of the MAC address.

The network settings of the OSM-5001 can be changed through the Ethernet interface via HTTP on port 80, or Telnet on port 9999.

The default baud rate for the RS-485 interface is 9600.

LED Behavior:

LED 1 is solid green when the OSM-5001 has power.

LED 2 monitors the OSDP communication. It will flash green when it is transmitting data and will flash red when it receives data.