**EATON**
Powering Business Worldwide

| Product description | Reference | Eaton EX | Eaton 5P | Eaton 5PX | Eaton 5SC (Rack or RT) | Eaton 5130 | Eaton 9PX | Eaton 9SX | Eaton 9E | Eaton 9130 | BladeUPS | Eaton 9155 | Eaton 9390 | PowerXpert 9395/9395P | Eaton 93PS | Eaton 93PM | Eaton 9PHD | Eaton 93E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Network card MS | Network-MS P/N: 744-00255-00P | × | × | × | × | × | × | × | × | × | | | | | × | × | × | × |
| Network and MODBUS card MS | MODBUS-MS P/N: 744-98065-00P | × | × | × | × | × | × | × | × | × | | | | | × | × | × | × |
| ConnectUPS-X Web/SNMP card | 116750221-001 | | | | | | | | | | × | × | × | × | | | | |
| PowerXpert UPS X-Slot card (PXGX UPS) | 103007974-5591 | | | | | | | | | | × | × | × | × | | | | |
| PowerXpert UPS MiniSlot card (PXGMS UPS) | PXGMSUPS P/N: P-116000035 | | | | | | | | | | | | | | × | × | × | |
| ConnectUPS-E Web/SNMP card | 116750223-001 | | | | | | | | (×) | (×) | (×) | (×) | (×) | | | | | |
| Environmental Monitoring Probe (EMP) Environment Sensor for web cards [one of the cards above required] | EMP001 P/N: 744-A1576 | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × |
| Relay card - MS | Relay-MS P/N: 744-98067-00P | × | × | × | × | × | × | × | × | | | | | | * | * | | * |
| Industrial relay card - MS (rev 4) | INDRELAY-MS P/N: P-116000059 | × | × | × | × | × | × | × | × | | | | | | × | × | × | × |
| BD Slot Relay card | 1014018 | | | | | | | | | × | | | | | | | | |
| X-Slot Relay Card | 1018460 | | | | | | | | | | × | × | × | × | | | | |
| X-Slot ModBus RTU Card | 103005425-5591 | | | | | | | | | | × | × | × | × | | | | |

## Description

### Network card MS (Network-MS)
**Provides Web interface and SNMP communication over Ethernet**
- Installation in Eaton Mini-Slot Enhancement Bay (also BD Slot)
- 10/100 Mbit Ethernet
- IP v4 & v6, SNMP v1 & v3, http & https
- Alarms through Email (SMTP)
- Automatic Time Synchronisation (NTP)
- Configuration via RS232, DHCP, Telnet, CLI
- Supports optional EMP (Temperature, Humidity, 2 x Digital inputs)
- Can be monitored with Eaton Intelligent Power Software
- Package contents: Card; Configuration Cable; Manual

### Network and MODBUS card MS (MODBUS-MS)
**Provides Web interface and SNMP communication over Ethernet and ModBus through RS 485**
- Installation in Eaton Mini-Slot Enhancement Bay (also BD Slot)
- 10/100 Mbit Ethernet, MODBUS/JBUS (RTU, RS232 & RS485)
- IP v4 & v6, SNMP v1 & v3, http & https
- Alarms through Email (SMTP)
- Automatic Time Synchronisation (NTP)
- Configuration via RS232, DHCP, Telnet, CLI
- Supports optional EMP (Temperature, Humidity, 2 x Digital inputs)
- Can be monitored with Eaton Intelligent Power Software
- Package contents: Card; Configuration Cable; Manual
- Limited support for 93E

### ConnectUPS-X Web/SNMP card (116750221-001)
**Provides Web interface and SNMP communication over Ethernet**
- Installation in Eaton X-Slot Enhancement Bay
- 10/100 Mbit Ethernet (4-Port-Hub)
- IP v4, SNMP v1, http & https
- Alarms through Email (SMTP)
- Automatic Time Synchronisation (NTP)
- Configuration through RS232, DHCP, Telnet
- Supports optional EMP (Temperature, Humidity, 2 x Digital inputs)
- Can be monitored with Eaton Intelligent Power Software
- Package contents: Card; Configuration Cable; Network cable; Manual

### PowerXpert UPS X-Slot card (PXGX UPS) (103007974-5591)
**Provides Web interface, ModBus TCP, BACnet IP and SNMP communication over Ethernet**
- Installation in Eaton X-Slot Enhancement Bay
- 10/100 Mbit Ethernet (2 port hub for daisy chaining)
- IP v4 & v6, SNMP v1 & v3, http & https
- MODBUS TCP
- BACnet IP (from fw 2.3.6)
- Alarms through Email (SMTP)
- Automatic Time Synchronisation (NTP)
- Configuration through USB, DHCP
- Supports optional EMP (Temperature, Humidity, 2 x Digital inputs)
- Can be monitored with Eaton Intelligent Power Software
- Package contents: Card; Configuration Cable; Network cable; Manual

### PowerXpert UPS MiniSlot card (PXGMSUPS)
**Provides Web interface, ModBus TCP, BACNetIP and SNMP communication over Ethernet**
- Installation in Eaton 93PM MiniSlot Enhancement Bay
- 10/100 Mbit Ethernet DB5
- IP v4 & v6, SNMP v1 & v3, http & https
- MODBUS TCP, BACNet IP, MODBUS 2-wire RS-485
- Alarms through Email (SMTP)
- Automatic Time Synchronisation (NTP)
- Configuration through USB, DHCP
- Supports optional EMP (Temperature, Humidity, 2 x Digital inputs)
- Can be monitored with Eaton Intelligent Power Software
- Package contents: Card; Configuration Cable; Network cable; Manual
**93PM, 93PS and 9PHD support only!**

### ConnectUPS-E Web/SNMP adapter (116750223-001)
**Provides Web interface and SNMP communication over Ethernet**
- External
- 10/100 Mbit Ethernet
- IP v4, SNMP v1, http & https
- Alarms through Email (SMTP)
- Automatic Time Synchronisation (NTP)
- Konfiguration via RS232, DHCP, Telnet
- Supports optional EMP (Temperature, Humidity, 2 x Digital inputs)
- Can be monitored with Eaton Intelligent Power Software
- Package contents: Adapter; Power supply; Configuration Cable; Communication cable; Manual

### Environmental Monitoring Probe [EMP] (EMP001)
**Accessory to Web cards and select ePDUs, adds monitoring of temperature, humidity and two digital inputs.**
- External device
- Connects to Eaton Web cards and select ePDUs through RJ45 Cat 5 patch cable (1,5 m provided, 20 m max)
- Alarm limits for temperature and humidity can be set in Web cards
- Two potential free digital inputs
- Used as the temperature probe in temperature compensated charging
- Facilitates graceful shutdown of servers in case of unacceptable environmental conditions or contact closure change
- Can be monitored with Eaton Intelligent Power Software through Web cards or ePDUs
- Package contents: EMP; RJ45 Cable(1,5m); Mounting accessories, Manual

### Relay card MS (Relay-MS)
**Provides communication through voltage free relays or RS-232.**
- Installation in Eaton Mini-Slot Enhancement Bay
- 1 x 9-pin Dsub connector
- 1 x RS232 or 5 x Relay output / 1 x Input
- Package contents: Card; Manual
- Works in 3 phase Minislot units as well, but recommendation is to use the INDRELAY-MS

### Industrial relay card MS (INDRELAY-MS)
**Provides communication through voltage free relays.**
- Installation in Eaton Mini-Slot Enhancement Bay
- Terminal connectors, 250 VAC/5A rating
- 5 x Relay output / 1 x Input
- Package contents: Card; Manual

**Compatible with all MiniSlot UPS since rev 4!**

### BD-Slot Relay Card (1014018)
**Provides communication through voltage free contacts.**
- Installation in Eaton BD-Slot Enhancement Bay (Eaton 9130)
- 1 x 15-pin Dsub Connector
- 4 Switching Relays (both NO and NC) / 1 x Digital Input
- 12VDC unregulated voltage supply
- Package contents: Card; Manual

### X-Slot Relay Card (1018460)
**Provides communication through voltage free contacts.**
- Installation in Eaton X-Slot Enhancement Bay
- 1 x 15-pin Dsub Connector/Terminal blocks
- 4 Switching Relays (both NO and NC) / 1 x Digital Input
- 12VDC unregulated voltage supply
- Package contents: Card; Manual

### X-Slot MODBUS Card (103005425-5591)
**Provides MODBUS RTU communication.**
- Installation in Eaton X-Slot Enhancement Bay
- MODBUS/JBUS (RTU, RS232 & RS485)
- 3 x 9-pin Dsub connectors; 5 wire terminal block
- Configuration through RS232 and DIP switches
- Package contents: Card; Configuration Cable; Manual