# Power over Ethernet injector (PoE power supply)

This section describes the PTP 250 Power over Ethernet injector (PoE power supply). One or two PoE power supply units are provided with every PTP 250 kit.

⚠ **CAUTION**

The ODU should only be deployed with either the PoE power supply or the PTP 300/500/600 Series PIDU. Do not use other power supply units, as they may damage the PTP 250. For guidance on choosing the most suitable power supply unit, refer to Power supply selection on page 2-4.

## PoE power supply description

The Motorola High Power Gigabit PoE power supply (Motorola part number WB3727) (Figure 1-6) is a single-port Power over Ethernet injector combining low-voltage DC with Ethernet data in a single cable connecting to a PTP 250 ODU.

**Figure 1-6**  PoE power supply

# PoE features

The PoE power supply has the following features:

- Independent power controller (SPEAR™), CPU controller and input (Data) and output (Data & Power) shielded RJ-45 connectors.

- Supports standard 10/100/1000BaseT Ethernet networks over a standard TIA/EIA-568 Category 5 (or higher) cabling.

- Universal AC Input: 110/220 V, 60/50 Hz.

- Maximum available output power 30 W (nominal output voltage 52 to 56 V DC).

- Underload, overload, short-circuit and under/over voltage port protection.

- Port and AC power LED indicators.

- Standalone or wall mount installation support.

- Coupling rail and slot to allow two or more PoE power supply units to be mounted together.

# PoE power supply interfaces

The PoE power supply interfaces are illustrated in Figure 1-7 and described in Table 1-2 and Table 1-3.

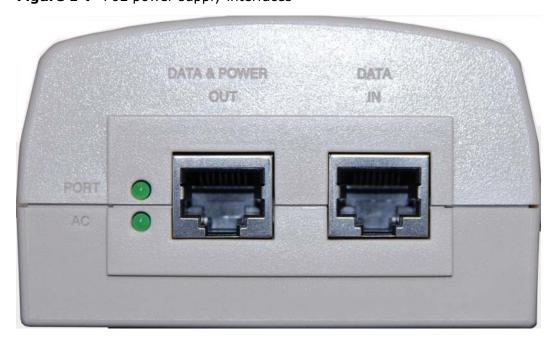**Figure 1-7** PoE power supply interfaces

**Table 1-2**  PoE power supply interface functions

| Interface | Function |
| --- | --- |
| IEC Power socket at rear | Mains power input (100 – 240 V AC). |
| DATA & POWER OUT | RJ45 socket for connecting CAT5e cable to ODU. |
| DATA IN | RJ45 socket for connecting CAT5e cable to network. |

**Table 1-3**  PoE power supply indicator LEDs

| Indicator | Function | Description |
| --- | --- | --- |
| AC | Off | The PoE power supply is not receiving power. |
| | Green (steady) | The PoE power supply is receiving power from an AC outlet. |
| | Green (blinking) | The PoE power supply is receiving a voltage from the AC outlet that is out of the correct range (100 – 240 V AC). |
| Port | Off | There is no device connected to the DATA & POWER OUT port. |
| | Green (steady) | A device is connected to the DATA & POWER OUT port. |
| | Green (blinking) | The PoE power supply is overloaded or has a short circuit. |