

Megaplex-4 Accessory

MPF

DC Power Feed for Remote SHDSL CPEs/Repeaters



- Phantom feeding for SHDSL/SHDSL.bis modems and 2- or 4-wire repeaters
- Up to 900W output available for power feeding
- Uninterruptable power supply for modems/repeaters

MPF is a standalone DC power supply for SHDSL/SHDSL.bis ASMi-54C modules installed in the Megaplex-4 chassis that deliver phantom power feeding to remote SHDSL/SHDSL.bis repeaters or modems.

Coupling remote power feeding with extended range using RAD's repeater provides a comprehensive solution for migration to Next Generation networks.

MPF provides the DC power for up to 80 active ASMi-52/54 modems or repeaters operating in 2- or 4-wire mode.

The device has two output connectors to fit a Megaplex-4100/4104 unit equipped with two PS modules.

MPF is a standalone unit, intended for installation on shelves or in 19-inch racks. The unit height is 1U.

The device also includes a power sense mechanism, alarms relays, fans and LED indicators.

The device is cooled by forced air cooling.

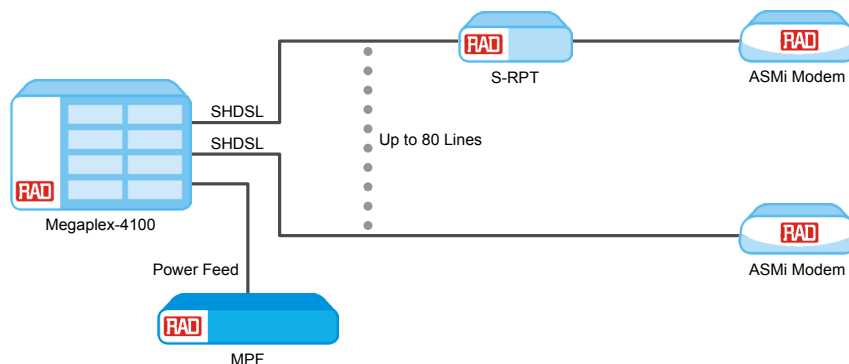


Figure 1. MPF Supporting a Megaplex-4100 Chassis with SHDSL/SHDSL.bis Ports

MPF

DC Power Feed for Remote SHDSL CPEs/Repeaters

Specifications

DC INPUT

Voltage

36-57 VDC

Connector

3-pins TB male

Power

Max input power required – 1400W:

- For operating Megaplex-4100: 300W
- For power feeding: 1100W

Current

29A maximum (@48 VDC nominal input)

Connector Current Capacity

41A (max)

DC OUTPUT

Nominal Voltage

120 VDC

Max output power – 1200W:

- For operating Megaplex-4100/4104: 300W max
- For power feeding: 900W max

Power consumption of a single ASMi-54C/E1/ETH/UTP/N/RPF module working from MPF:

$3W + [P \times (C_m + C_r + C_l)]$, where:

- P – number of module ports used for phantom feeding
- C_m – remote modem power consumption
- C_r – repeater power consumption
- C_l – power drop on the line

Connectors

2 3-pin TB female connectors

Current

15A maximum

GENERAL

Environment

Operating temperature: -10°C to 45°C
(14°F to 113°F)

Storage temperature: -20°C to +70°C
(-4°F to +158°F)

Humidity: up to 95%, non-condensing

Indicators

PWR (green)

On when both +V and -V output voltages are within normal range

ALARM (red)

On if one of the following occurs:

- Power consumption from MPF for power feeding reached 90% of its maximum capacity
- At least one of the fans failed
- +V output voltage is at least 15% less than the nominal voltage
- -V voltage is higher than -38 VDC

Physical

Height: 44 mm (1.7 in – 1U)

Width: 480 mm (19.0 in)

Depth: 310 mm (12.2 in)

Weight: 3.515 kg/7.7 lb

Alarm Connector

9-pin, D-type, female

Ordering

RECOMMENDED CONFIGURATIONS

MPF/48/120VDC

48 VDC power feed for remote SHDSL CPEs/repeaters, 120 VDC nominal voltage

SUPPLIED ACCESSORIES

DC connection kit

RM-34

Hardware kit for mounting the MPF unit into a 19-inch rack

OPTIONAL ACCESSORIES

RM-34/A

Hardware kit for mounting the MPF unit into a 19-inch rack (allows installation 100 mm (3.9 in) deeper into the 19-inch racks)

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