

PFH-4

SHDSL/SHDSL.bis Power Feeding Hub



- Remote power feeding hub transfers power and data over up to four SHDSL/SHDSL.bis pairs
- 120 VDC/60 mA power feeding output with over-current protection per channel
- 48 VDC input power on standard 8.5-inch metal rack
- Terminal block connector for each channel input and output
- Over-temperature protection: in case the control unit overheats, all lines feeding power are shut down

PFH-4 is a standalone remote power feeding hub that delivers power and data to up to eight SHDSL/SHDSL.bis lines and eliminates the need for locally powered modems or repeaters.

The unit combines power and data on up to four pairs of lines through input and output terminal block connectors.

The hub supplies each line with 120 VDC at a maximum of 60 mA.

The maximum power delivered to the end of 4-wire line can be calculated with the SHDSL Line Power Calculator available at the RAD Distributors Site.

Table 1 shows the maximum power at the end of 24 AWG, 4-wire line for a single PFH-4 channel.

Table 2 shows the maximum power at the end of 2 km, 24 AWG, 4-wire line for a different number of PFH-4 channels.

All lines are protected from overload and short-circuiting. At overload, a current limiter stops the power feeding, activates a LED alarm, and initiates auto-restart recovery.

A dry contact relay outputs major and minor alarm warnings to a DB-9 connector.

Front-panel LEDs indicate the power feeding status for each line and provide warnings for current and temperature overload conditions.

The external DIP switch enables selective power feeding for each individual line.

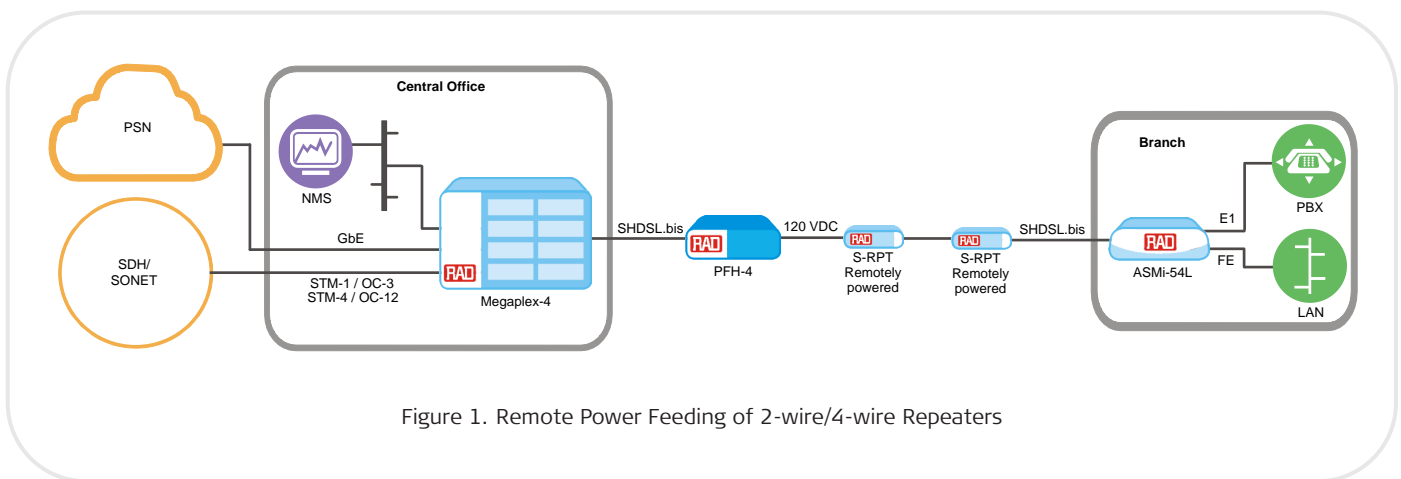


Figure 1. Remote Power Feeding of 2-wire/4-wire Repeater

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Specifications

POWER SUPPLY

Input Power

48 VDC nominal (40–72 VDC)

Connector

Three-pole male terminal block

LINE INTERFACE

Data

4 x 2-wire

2 x 4-wire

1 x 8-wire

Power Feeding

120 VDC at 60 mA maximum per line

Connectors

Input–single pair male pin terminal block

Output–single pair female pin terminal block

GENERAL

Power Feeding Control Switch

2-position DIP switch per pair

LED Indicators

P-FED (green)–Power feeding is active

ALM (red)–Fault indication

PWR (green)–48 VDC input is active

Alarm Relay

DB-9, female, major alarms relay via a dry contact

Physical

Height: 43.7 mm (1.7 in)

Width: 215 mm (8.5 in)

Depth: 300 mm (11.8 in)

Weight: 2 kg (4.4 lb)

Power Consumption

12W during normal operation

Environment

Temperature: 0° to 50°C (32° to 122°F)

Humidity: Up to 90%, non-condensing

Ordering

PFH-4/DC/120V/4P

120 VDC, 4-pair interface

SUPPLIED ACCESSORIES

3-pin female adapter plug for DC power input

Dual-pin female plugs for line input

Dual-pin male plugs for line output

OPTIONAL ACCESSORIES

RM-35/@

Hardware kit for mounting one or two

PFH-4 units in a 19-inch rack

Legend

@ Rack mount kit (Default=both kits):

P1 Mounting one unit

P2 Mounting two units

Table 1

Range [km]	Power at the Destination [W]
1	5.9616
2	4.7232
3	3.4848
4	2.2464

Table 2

PFH-4 Channels	Power at the Destination [W]
PFH CH1	4.7232
PFH CH1, 2	9.4464
PFH CH 1, 2, 3	14.1696
PFH CH 1, 2, 3, 4	18.8928

International Headquarters

24 Raoul Wallenberg Street

Tel Aviv 69719, Israel

Tel. 972-3-6458181

Fax 972-3-6498250, 6474436

E-mail market@rad.com

North America Headquarters

900 Corporate Drive

Mahwah, NJ 07430, USA

Tel. 201-5291100

Toll free 1-800-4447234

Fax 201-5295777

E-mail market@radusa.com

www.rad.com

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