

E-band 100 Mbps Full Duplex Wireless Ethernet Bridge

Features

- 100 Mbps Full Duplex
- 71-76/81-86 GHz
- Quasi-optical propagation
- Cost effective direct modulation
- Compact Cassegrain type antennas
- “All outdoor” design
- Software free and SNMP versions



Applications

- LAN-to-LAN interconnection
- Backbone networks
- Secure communications
- Crowded spectrum communications

Description

Elva-1 produces millimeter wave LAN Bridges for E-band (PPC-100-E product line). PPC-100-E provides a cost-effective solution for new opened 71-76GHz / 81-86 GHz bands.

PPC-100-E Bridges provides 100 Mbps Full Duplex connections. They designed as “all outdoor” unit, with 100BaseTX or 100BaseFX interface to connect directly to LAN.

PPC-100-E equipment is offered with antennas, mounting units and peripherals to allow a turnkey installation to the customer’s communication system. These products are compact and lightweight. Elva-1’s experienced staff is available to assist customers to select required parameters such as antenna size, transmitter power etc.

To simplify network management, PPC-100E wireless bridge has a software-free design. To provide SNMP control, PPC is produced with embedded controller.



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Range*

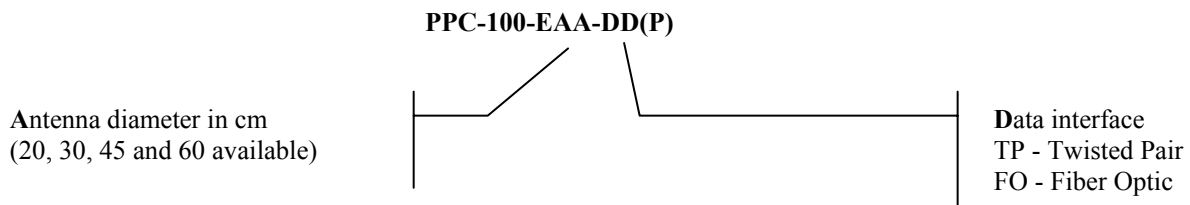
Antenna	20 cm	2700 m
	30 cm	3900 m
	45 cm	5400 m
	60 cm	6200 m

*) 5 mm/h rain rate

Specifications

Frequency range	71-76/81-86 GHz
Capacity	100 Mbps Full duplex
Data interface	Twisted pair / Fiber optic
Antenna type	Cassegrain
Output power	50 mW
Antenna gain/ beamwidth	
20 cm	34 dB / 2,3°
30 cm	38 dB / 1,6°
45 cm	42 dB / 1,0°
60 cm	44 dB / 0,7°
Power	36-60 VDC, 25 W
Dimensions (w/o antenna)	330 x 350 x 460 mm
Weight	11 kg
Operating temperature	-40 to +60° C

How to Order



Example: PPC-100-E30-TP(P) – 100 Mbps full duplex Ethernet bridge operating in 71-76/81-86 GHz band with 30 cm antennas, twisted pair interface.