

J2 6.312 Mb/s Electrical Interface Pod

The HP E5126A J2 6.312 Mb/s Electrical Interface Pod generates and analyzes 6.312 Mb/s PDH frames on the HP E5200A Broadband Service Analyzer. These frames contain ATM cells which are generated and analyzed by the measurement system. This interface pod provides test capability at the physical layer. It supports the 6.312 Mb/s framing format as specified in

- ITU-T G.703
- ITU-T G.704
- ITU-T G.804
- NTT Technical Reference of Cell Relay Interface Ver.1.
- NTT Cell Relay Service UNI Specification Ver 0.1.
- ATM Forum 6,312 kbps UNI Specification

Input and Outputs

Line Code	B8ZS
Load Impedence	Unbalanced, 75 ohms +/- 5%
Transmit Levels	@ 3.156 Mb/s : 6.2 to 13.3 dBm @ 6.312 Mb/s : <-14 dBm as per G.703
Connectors	BNC

6.312 Mb/s Overhead Generation

MFAS	Automatically inserted "0x194"
M-Bit	In normal operation (no RAI), a repeating HDLC flag pattern (0x7E) is sent. When RAI is "on", a repeating 16 bit sequence of "0xFF00"s are sent.
A-Bit	Fixed to "0".
CRC-5	Automatically calculated and inserted.
X-Bit	Fixed to "1".
TS97 & 98	Fixed to "0xFF".

Alarms and Error Simulation

Alarm Simulation

Alarms	AIS, Payload AIS, RAI
Applicable Modes	Full Duplex Transmit Loopback
Control	On/Off

Error Simulation

CRC-5 Errors	Single shot, Periodic (1 errored CRC-5 in 10 ^N frame; n=1 to 4)
MFAS Errors	Continuous, Pulse (errored MFAS for n consecutive frames n=1 to 15)
Applicable Modes	Full Duplex Transmit Loopback

J2 Measurements

Displayed As C, R, or S
S
S
S
S
S
C,R,S
C,R,S
C,R,S

Note:

C = Count R = Ratio

S = Errored seconds

Operating Modes

Full Duplex	Full duplex transmitter and receiver operation.
Receive Loopback	Received signal is looped to the transmitter. (No overhead regeneration.)
Transmit Loopback	Transmitted signal is internally looped back to the receiver.



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Physical Specifications

Size

149mm (W) x 222mm (D) x 44mm (H) (5.8" x 8.7" x 1.7")

Weight

Approximately 1 kg (2.2lb)

Environmental

Operating temperature 5°C to 45°C

41°F to 113°F

Storage temperature $-40^{\circ}\mathrm{C}$ to $70^{\circ}\mathrm{C}$

-40°F to 157°F

Humidity

Maximum 90% @ 40°C

90% @ 103°F

Minimum 15% @ 40°C

15% @ 103°F

Ordering Information

HP E5126A Interface Pod, J2 6.312 Mb/s Electrical

Option UK6 Factory Calibration

Test Data

HP E5200A Broadband Service Analyzer

Option 126 Add J2 6.312 Mb/s

Electrical Interface

Pod

HP Sales and Support Offices

For more information, call your local HP sales office listed in your telephone directory or an HP regional office listed below for the location of your nearest sales office.

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Japan:

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