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Find the *Keysight / Agilent J2912B* at our website: *Click HERE*

ATM and WAN Interface Specifications (continued)

STM-1/ OC-3 (155.520 Mb/ s) J2912B

General

This optical interface comprises a plug-in module (J2912B) suitable for plugging into the J2300C/D/E Agilent Advisor mainframe and J2900A High Speed undercradle. The interface handles ATM and Packet over SONET/SDH (PoS).

Common to Inputs and Outputs:

Connectors: SC-PC

Framing:

- SDH: STM-1
- SONET: STS-3c

SONET/SDH Frame Scrambling ($x^7 + x^6 + 1$)

- STM-1: ITU-T G.707
- SONET: ANSI T1.105

ATM Cell Scrambling: conforms to ITU-T I.432.1 ($x^{43} + 1$) and may be turned on or off;

PoS analysis configurations supported:

- IETF PPP in HDLC: RFC 1662 and both current RFC 2615 ($x^{43} + 1$ scrambled SONET/SDH payload) and obsolete RFC 1619 (unscrambled SONET/SDH payload) versions with version auto-detect based on POH C2 byte value (default) and manual over-ride for scrambling enable/disable
- Cisco HDLC over SONET/SDH
- FCS-16 (default) and FCS-32

Inputs:

Two ports (single-mode/multi-mode compatible)

Sensitivity:

- Typ. -32 dBm
- Min. -28 dBm

Loss of Signal Detect Level:

- -34 dBm

Real-time optical power measurement (can also be used to measure at 622Mb/s):

- +3 dBm to -42 dBm dynamic range
- +/-0.5 dB absolute accuracy

Physical layer alarms and statistics (SDH / SONET):

- Loss of Signal (LOS) (*)
- Loss of Frame (LOF) (*)
- B1, B2, B3 BIP errors
- Summary BIP error (*)
- MS-REI/REI-L (Line FEBE)
- REI/REI-P (Path FEBE)
- MS-RDI/RDI-L (Line FERF) (*)
- MS-AIS/AIS-L (*)
- RDI/RDI-P (Yellow)
- AIS/AIS-P
- Summary Far End (*)
- Loss of Cell Delineation (LCD) (*)

ATM layer statistics:

- Auto-discovery of up to 1024 VCs and collection of statistics on each
- Average utilization in percent
- Instantaneous utilization in percent
- Maximum utilization in percent
- Total cells received
- Idle/unassigned cells received
- Busy (assigned) cells received
- Header (ìHECî) errors

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ATM and WAN Interface Specifications (continued)

PoS statistics:
- Average utilization in percent
- Instantaneous utilization in percent
- Maximum utilization in percent
- Minimum utilization in percent
- Average throughput (kbps)
- Instantaneous throughput (kbps)
- Maximum throughput (kbps)
- Minimum throughput (kbps)
- Total frames
- Total octets
- Abort frames
- Short frames
- FCS errors

ATM QoS measurements (to ITU-T O.191):
ATM: traffic contract conformance (policing) measurements
Capture buffer size: 64 Mbyte (approximately 1,000,000 cells)
Capture buffer timestamp resolution: 100 ns
Capture rate: Full line rate for ATM and PoS
Analyze bit error ratio (BER) patterns in the physical layer frame payload or in the ATM cell payload:
- 1111, 1010, 1100, PRBS 2^{15} - 1, PRBS 2^{20} - 1, PRBS 2^{23} - 1

Outputs:
Two ports, 1310nm Class 1 laser (multi-mode fiber compatible with 10 dB attenuator, available separately as J2928A)
Output levels:
- Min. -12 dBm
- Max. -7 dBm

Clocking: Internal (± 20 ppm)
Alarm Generation:
- MS-RDI/RDI-L (Line FERF)
- MS-AIS/AIS-L
- RDI/RDI-P (Yellow)
- AIS/AIS-P

Generate ATM Test Cell traffic (to ITU-T O.191) shaped to traffic contract
Generate bit error ratio (BER) patterns in the physical layer frame payload or in the ATM cell payload:
- 1111, 1010, 1100, PRBS 2^{15} - 1, PRBS 2^{20} - 1, PRBS 2^{23} - 1

Generation of PoS traffic not supported

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