ATM and WAN Interface Specifications (continued)

ISDN Primary Rate Interface (PRI) E1 (2.048 Mb/s) J4646A and J4647A

General
This interface comprises a choice of two plug-in modules (J4646A and J4647A) suitable for plugging into the J2300C/D/E Agilent Advisor mainframe and the J2900A High Speed undercradle. The J4646A has 75 Ohm BNC connectors; the J4647A has RJ-45 and DB-9 connectors, which with converter cables, can connect to 120 Ohm Small Siemens connectors. The modules handle ISDN, PPP, Async PPP, Multi-link PPP and BERT.

Common to Inputs and Outputs:
Connectors:
  J4646A: unbalanced 75 Ohm BNC female
  J4647A: balanced 120 Ohm DB-9 and RJ-45
Line Code:
  HDB3, AMI
Electrical:
  ITU-T G.703
Framing:
  ITU-T G.704 alternate framing with or without CRC-4
  Fractional channel, any multiple of 64 kb/s channel
  Unframed at 2.048 Mb/s

Inputs:
Two ports
Levels:
  ITU-T G.703
Monitor modes:
  Terminated, 75 Ohm unbalanced (J4646A)
  Monitor Jack -20 dB and -30 dB
  Terminated, 120 Ohm balanced (J4646A)
  Bridged (High Impedance)
Physical Layer Alarms and Statistics:
  Loss of Signal (LOS)
  Loss of Frame (LOF)
  Alarm Indication Signal (AIS)
  Remote Alarm Indication (RAI)
  Line code violations
  CRC-4 errors (if CRC-4 is selected)
  Frame alignment error
Capture buffer size: 28 Mbyte
Capture buffer timestamp resolution: 100 ns
Capture rate: Full line rate

Outputs:
Two ports, 75 Ohm unbalanced (J4646A) or 120 Ohm balanced
  (J4647A)
Levels:
  ITU-T G.703
Clocking:
  Recovered (loop), Internal and External (using other receiver input)
Internal clock rate accuracy:
  +/- 50 ppm
Generation of bit error ratio (BER) patterns in the physical layer
  frame payload:
    PRBS 2^{15} - 1, PRBS 2^{20} - 1, PRBS 2^{23} − 1
    Transmission of 64-bit BER user pattern