



Specification

VISM 2.0 Specifications

General

- ATM layer: Per CCITT standards I.361 and ATM UNI v3.1
- AAL layer: AAL5 as per standard I.363.

Physical Interface specifications and applicable Standards

Physical Layer Interface T1

- Line Rate: 1.544Mbps +/- 50 bps.
- Line Interface Connector: Balanced 100 Ohm RJ48C.
- Synchronization: The transmit clock can be selected from either the looped clock or the node's clock.
- Line Code: Bipolar 8 Zero Substitution (B8ZS) per ANSI T1.408 and AMI.
- Line Framing: Extended Superframe Format (ESF 24- frame multiframe.) per ANSI T1.408.
- Input Jitter Tolerance: Per ATT TR 62411.
- Output Jitter Generation: Per ATT TR 62411 using normal mode synchronization.
- Physical Layer Alarms: LOS, LOF, AIS, RAI.

Physical Layer Interface E1

- Line Rate: 2.048 Mbps +/- 50 bps.
- Line Interface Connector: Balanced 120 Ohm RJ48C, Unbalanced 75 Ohm SMB.
- Synchronization: The transmit clock can be selected from either the looped clock or the node's clock.
- Line Code: HDB3 (E1) and AMI.
- Line Framing: 16 frame Multiframe per G.704.
- Input Jitter Tolerance: As specified in ITU G.823 for 2.048 Mbps.

- Output Jitter Generation: As specified in ITU G.823 for 2.048 Mbps.
- Physical Layer Alarms: LOS, LOF, AIS, RAI.

Card General

- Card Status Indicator LEDs: Active (Green), Standby (Yellow), Fail (Red).
- Line status indicator LEDs:
 - !Active & Okay (Green).
 - Active & Local Alarm (Red).
 - Active & Remote Alarm (Yellow).
- Maintenance/Serviceability Features: Internal loop backs, hot-pluggable.

VISM Front Card:

AX-VISM-8T1/8E1 7.25" x 16.25"

VISM Line Modules

AX-RJ48-8T1-LM 7.0" X 4.5"

AX-R-RJ48-8T1-LM 7.0" X 4.5"

AX-RJ48-8E1-LM 7.0" X 4.5"

AX-R-RJ48-8E1-LM 7.0" X 4.5"

AX-SMB-8E1-LM 7.0" X 4.5"

AX-R-SMB-8E1-LM 7.0" X 4.5"

Total VISM Power:

48 V DC, (100 W estimated)

5 V DC, (25 W estimated)

3.3 V DC (43 W estimated)

2.5 V DC (12 W estimated)

Counters specification

T1/E1 Framers:

OOF Count

LCV Count

FER Count

CRC Error Count

RTP/RTCP:

Number of packets received

Number of packets transmitted

Number of error packets received

ATM cells

Number of cells transmitted to cellbus

Number of cells discarded due to intershelf alarm

Number of cells transmitted with CLP bit set

Number of AIS cells transmitted
Number of FERF cells transmitted
Number of end-end loop-back cells transmitted
Number of segment loop-back cells transmitted

Number of cells received from cellbus
Number of cells received with CLP bit set
Number of AIS cells received
Number of FERF cells received
Number of end-end loop-back cells received
Number of segment loop-back cells received
Number of OAM cells discarded due to CRC-10 error

Diagnostics:
Header of last cell with unknown LCN

