

ETM® 2100/3200 Series Communication Appliances

ETM® 2100/3200 Communication Appliances are rack-mountable devices that are installed inline on circuit-switched lines to monitor and secure your voice network. They are deployed on trunks between the Central Office (CO) and the enterprise PBX. Each Appliance chassis accommodates 1–4 board sets, referred to as Cards. Each Card has interfaces for up to four T1 (CAS, PRI, and/or SS7) Spans; or up to four E1 (PRI and/or CAS) Spans. These appliances can support the optional Call Recording application when coupled with an ETM 1060 Call Recording Cache Appliance. ETM Span and ETM Call Recording licenses are sold separately (license for 1 span).

ETM Communication Appliances continuously monitor all signaling and bearer traffic, and use an expandable policy engine to examine calls and take actions based upon user-defined rules. Monitoring all bearer/audio data allows the Appliance to accurately determine the call type, which is essential for policy execution. The Appliances include a fail-safe mode that leaves the circuits fully operational if the Appliance loses power for any reason. The Appliances are completely remotely managed and can be remotely upgraded with new software and applications.

The ETM System is expandable and supports various security and management applications. Several applications are bundled; other optional applications are available now, and more optional applications are planned for future release. Most applications are software upgrades or involve simple hardware expansions, such as the addition of an ETM Application Appliance.

The ETM System uses fully distributed client/server/database/appliance architecture. The ETM Server can manage one to many Appliances located locally or remotely. One ETM Client can locally or remotely manage one or multiple instances of the ETM Server. All policy, configuration, and software upgrades can be downloaded from the Server to all local and remote Appliances.

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The technical specifications of the ETM 2100 Series Appliance, the 3200 Series Appliance, and their major components (Controller Card, Digital Trunk Interface, and chassis) are described below:

Controller Card

Processor:

CPU 250 MHz Motorola 8240, or 266 MHz 8245 declocked to 250 MHz
 Bus speed 100 MHz Asynchronous Bus
 PCI Bus speed/width 33 MHz/32-bit
 DSP 10 x 160 MHz (or 200MHz) Texas Instruments TMS320C5510

Memory:

RAM 64 MB with ECC
 SRAM (NVRAM) 512K bytes (for configuration parameters).

Interfaces:

Ethernet Data Network Interface: RJ-45, 10 Mbps or 100Mbps
 Console and SMDR/CDR Interfaces (2) RJ-45 – RS-232C – DCE, Asynchronous up to 115 kbps
 Expansion Slots (2 standard size) PMC daughter-board with front-panel I/O access

Storage:

Compact Flash 64 MB minimum

Digital Trunk Interface

Interface:

Telephony Interface RJ-48C

Telephony Specifications:

Number of Lines Up to 4 T1 or E1 circuits
 Line Rate 1.544 or 2,048 Mbps
 Line Framing SF (D4), ESF, CRC 4, Non-CRC 4
 Line Code AMI, B8ZS, HDB3
 Input Signal 0 to -36 dB
 Line Build Out T1: Short Haul 0-660ft (110 ft increments), T1: Long Haul 0, -7.5, -15, -22.5 dB, E1: 120 Ohm
 Keep Alive Unframed All Ones (AIS)
 Network/CO Activation Alarms LOS and/or Loss of Frame (Red), RAI (Yellow), AIS (Blue)
 Equipment/PBX Activation LOS and/or Loss of Frame (Red), RAI (Yellow), AIS (Blue)
 Reporting Panel LEDs (Network/CO Red or Blue and Yellow, CPE/PBX Red or Blue and Yellow), ETM Management Server Diagnostic Messages

AC Chassis (2100)

Environment:

AC Input 100-240 VAC, 50/60 Hz
 Input Current 500mA
 Heat Output 196.2 BTU/hr typical
 Fuse 3A, 250V
 Connection IEC Connector
 Power Supply Hot-swappable
 Dimensions 1.75" H x 17.5" W x 12" D
 Weight 10 lbs.
 Mounting Desktop, 19" Rack, or Wall-Mount
 Fans Integrated fan tray with 3 fans
 Number of Lines Holds one board set

AC Chassis (3200)

Environment:

AC Input 100-240 VAC, 50/60 Hz
 Input Current 1 board set: 650mA, 2 board sets: 950mA, 3 board sets: 1.250A, 4 board sets: 1.550A
 Heat Output 1 board set: 255.1 BTU/hr typical, 2 board sets: 372.8 BTU/hr typical, 3 board sets: 490.5 BTU/hr typical, 4 board sets: 608.2 BTU/hr typical
 Fuse 3A, 250V
 Connection IEC Connector
 Power Supply Dual redundant hot-swappable
 Dimensions 3.5" H x 17.5" W x 12" D
 Weight 1 board set: 19 lbs, 2 board sets: 20 lbs, 3 board sets: 21 lbs, 4 board sets: 22 lbs
 Mounting Desktop, 19" Rack, or Wall-Mount
 Fans 3 fans on a removable fan tray
 Number of Lines Up to 4 board sets

DC Chassis (3200 Only)

Environment:

Input Current 1 board set: 650mA, 2 board sets: 950mA, 3 board sets: 1.250A, 4 board sets: 1.550A
 Heat Output 1 board set: 255.1 BTU/hr typical, 2 board sets: 372.8 BTU/hr typical, 3 board sets: 490.5 BTU/hr typical, 4 board sets: 608.2 BTU/hr typical
 DC Input -36 to -72 VDC
 DC Input Current 1 board set: 1.100A, 2 board sets: 1.450A, 3 board sets: 2.100A, 4 board sets: 2.750A
 DC Heat Output 1 board set: 180.1 BTU/hr typical, 2 board sets: 237.5 BTU/hr typical, 3 board sets: 344.0 BTU/hr typical, 4 board sets: 450.4 BTU/hr typical
 Fuse 8A, 250V
 Connection screw lug terminals
 Power Supply Dual redundant hot-swappable
 Dimensions 3.5" H x 17.5" W x 12" D
 Weight 1 board set: 19 lbs, 2 board sets: 20 lbs, 3 board sets: 21 lbs, 4 board sets: 22 lbs
 Mounting Desktop, 19" Rack, or Wall-Mount
 Operating Temperature 32 to 104 F (0 to 40 C)
 Storage Temperature -4 to 158 F (-20 C to +70 C)
 Fans 3 fans on a removable fan tray
 Line Protection FCC Part 68 Type A & B (1500V Lightning), Fused Input/Output
 Number of Lines Holds up to 4 board sets.

General (Assembled Appliance)

Environmental:

Operating Temperature 32 to 104 F (0 to 40 C)
 Storage Temperature -4 to 158 F (-20 C to +70 C)

Telephony Specifications:

Line Supervision Types Loop Start, Ground Start, Wink Start, Immediate Start, ISDN PRI, SS7 ISUP, R1
 Address Signaling Types DTMF, MF and Pulse Dialing
 Signaling Protocols DID/DNIS, ANI, Caller ID
 ISDN Variants T1. PRI: NI-2, 4ESS, 5ESS, DMS100
 E1. PRI: EuroSDN, DASS2, DPNSS, QSIG
 ANSI ISUP, ETSI ISUP
 T1 PRI: Backup D-Channel and NFAS configurations supported

SS7 Variant
 Other Variants

Meets or Exceeds the Following Certifications and Approvals:

Telephone Network FCC Part 68, Industry Canada CS-03, CTR-4, JATE, MIC
 EMI/EMC FCC Part 15, ICES-003, EN55022, EN55024, CISPR 22
 Safety CB Scheme (EN/IEC60950), UL /cUL 60950
 Marks and Approvals FCC Part 15, FCC Part 68, JATE, Industry Canada, CE Mark, UL/cUL, MIC
 Other Country Approvals Turkey