

MAC-MP1024



**M
A
C** MEASUREMENTS
AND
CONTROLS
INDIA LTD

MAC-MP1024 (Media Processing) is a complete Voice Over IP (VOIP) media processing solution providing IP and PSTN interfaces as needed to build next generation application for both today's and tomorrow's Next Generation Networks.

MAC- MP1024 Card supports a variety of media processing functions, including message record/playback, conferencing, on-board announcements, voice encoding, echo cancellation, call progress tone detection, offering integrated voice gateway functionality capable of delivering up to 1024 simultaneous calls and supports all necessary functions for voice over IP networks.

MAC- MP1024 Card supports board selection of voice processing related algorithms including G.711 and G.729A/B. The MAC-MP1024 Card complies with Telecom industry standard network control protocol including SIGTRAN, MEGACO (H.248), SIP and RTP. These allow for the implementation of a distributed gateway architecture that separates call processing functions from media streaming functions. Designed based ATCA standards resulting in better redundancy, scalability and higher system availability.

Key Benefits

- Guarantees feature continuity for highly profitable telephony services.
- Allows fast introduction of new voice services (e. g announcements).
- It is an ATCA compliant card as per PICMG 3.0
- Inbuilt Power Monitoring and Temperature sensors and Temperature Monitoring.

MAC-MP1024 View



Applications:

- Next Generation Networks.
- IP Services Platform.
- VoIP Access Gateways.
- Trunking Gateways
- Conference Servers
- Media Server
- Interactive Voice Response System

Specification

Capacity

- up to 1024 Voice, Fax and data channels

Voice Codec

- G.711, G.723.1, G.726/G.727, G.729AB.

Echo Cancellation

- G.168-2002 compliant 32 ms, 64ms, 128 ms echo tail length

Fax Relay and Transmission

- Real Tone Fax over IP/T.38 compliant, automatic fall back to G.711

In-band / Out-band signaling

- DTMF detection / generation both packet and PSTN (TDM) Interface.

VoIP Standards

- RTP/RTCP per RFC 3550/3551
- DTMF over RTP per RFC 2833

Storage Capacity

- On Board Announcement Storage up to 16 GB.

Control Protocol

- MEGACO (H.248)
- SIP
- H.323

Management

- SNMPv2

Operating system

- Linux

Signaling Specification

PSTN

- CAS E1 robbed bit, MFC/R2 numerous country variants
- CCS ISDN PRI, V5.2, ETSI Euro ISDN
- SS7 MTP2 link termination, ISUP

SIGTRAN

- IUA over SCTP per RFC 3057/2960
- SS7 MTP2 link termination M2UA, M3UA over SCTP .

Interfaces

- Ethernet-Dual Redundant 1000 Bx ports through Zone 2 connector towards back plane as per ATCA PICMIG 3.0 standards.
- 16 E1 2Mbps interfaces per G.703 through Zone 3 connector.
- Full Hot Swap Supported per PICMG 3.0

LED Indication

- BI-Color LED to indicate card status OK/ALARM
- Blue Color for Hot Swap Indication

Power Specification

- Power –48V DC Dual Feed
- Reverse Voltage protection
- Inrush protection
- Power Consumption – 70W(approx).