

Natural Sounding Wide-band VoIP Audio

The Symetrix 2 Line VoIP Interface Card is a SIP-based hardware plug-in for Symetrix Radius and Edge DSPs. The card supports both narrow and wide-band audio codecs and is capable of a broad range of telephony functions including dial, hold, resume, transfer, do not disturb, and conference. Independent SIP registrations are provided for two simultaneous calls. The 2 Line VoIP Interface Card is well suited for applications in conferencing, paging, remote monitoring, and broadcast.

Open Standards Interoperability

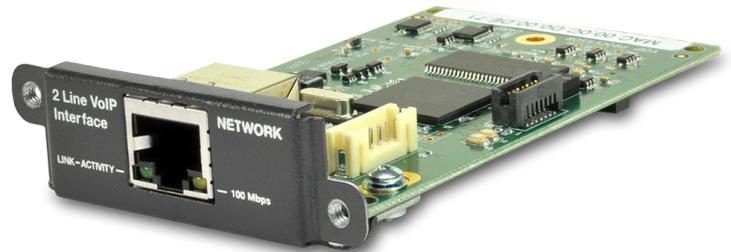
Designed around open SIP standards, the card has been validated with Cisco, Avaya, and Asterisk SIP-compatible call management platforms. The card delivers high-definition voice quality and a superior unified communications experience, while leveraging and complementing existing telephony investments.

Best-In-Class Deployment and Administration

Deployment and administration are intuitive and flexible. Configuration can be managed from both the AV and VoIP LANs, giving AV integrators and VoIP specialists easy access for initial setup and maintenance.

Multiple Control Options

SymVue application builder and extensive third-party control support allow for intuitive end-user operation, while reducing the amount of time needed to develop application-specific user interfaces.



Product Highlights

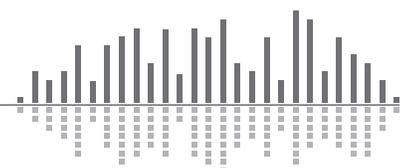
- Natural sounding wide-band audio for all applications improves communication.
- Leverages existing IT infrastructure to reduce telecommunications costs.
- Web-based management access from both the VoIP LAN and AV LAN speed up the work of AV and/or VoIP specialists.
- Backwards-compatible API saves time when integrating with existing control systems.
- The card can support two independent rooms.
- Each line supports two callers for conferencing without an external conference bridge.
- Composer programming software supports DTMF decoding and call status logic.

Audio

- Codecs: G.722, G.711 (A-law and μ -Law), G.729 and G.723.1.
- DTMF tone generation (RFC 2833, SIP Info and in-band).
- Low-delay audio packet transmission.
- Adaptive jitter buffers.
- Independent level adjustments for call progress, DTMF and ring tones.
- Country-specific tone compatibility.

Call Handling

- 2 lines (registrations) with independent operation.
- 4 call appearances (4 remote calls, 2 per line).
- Call transfer, hold, resume.
- URI dialing.
- Call reject.
- Call timer.
- Call waiting.
- Local three-way audio conferencing per line.
- Do not disturb function.
- Local configurable digit map / dial plan.
- On-hook, off-hook, speed dialing, redial.
- Conferencing and splitting of call appearances.
- Auto-answer.
- Calling party identification.



Call Handling Functions Managed Using Call Management Platform Feature Codes

- Call forwarding.
- Voicemail.
- Park pick-up.

Network, Signaling and Provisioning

- One 10/100 Mbps LAN interface.
- Password-protected web management access via VoIP LAN or AV LAN on Symetrix Edge and Radius AEC systems.
- IETF SIP (RFC 3261 and companion RFCs).
- Conforms to IEEE802.3-2005 (Clause 40) for Physical Media Attachment.
- Conforms to IEEE802.3-2002 (Clause 28) for Link Partner Auto-Negotiation.
- Manual or dynamic host configuration protocol (DHCP) network setup.
- Network Address Translation (NAT) – support for static configuration and “Keep-Alive” SIP signaling.
- VLAN support.
- QoS Support – IEEE 802.1p/Q tagging (VLAN), and DSCP.
- RTCP support.
- Event logging.
- IPv4.
- TCP and UDP.

Electrical Specifications

Connector	RJ45	Ethernet Interface	10/100 Base-T.
Ethernet Cable	Standard CAT5, maximum device to device length = 100 meters.		

Mechanical Specifications

Items	Specifications	Remarks
Shipping Weight	1 lbs. (0.45 kg)	
Certifications or Compliance	UL 60065, cUL 60065, IEC 60065, EN 55103-1, EN 55103-2, FCC Part 15, RoHS, WEEE.	
What Ships in the Box	Symetrix I/O card, card bracket, 2 black 4-40 Phillips head screws, 3 stainless steel 4-40 Phillips head screws, a quick start guide.	Field swappable by certified technicians.

Architect and Engineer Specifications

The device shall provide two VoIP lines to a Symetrix Edge or Radius series frame with standard SIP telephony functions. Up to four of these devices may be installed in a single Edge frame for up to eight VoIP lines and up to one of these devices may be installed in a single Radius series frame for up to two VoIP lines. VoIP network connection shall be accessible via a rear panel RJ45 Ethernet connector with configuration available both via the VoIP LAN interface and the AV LAN interface.

The device shall comply with CE and FCC Part 15 emissions limits. The device shall be RoHS and WEEE compliant and carry a three-year manufacturer’s warranty. The mounting plate shall be constructed of cold rolled steel. The device shall be a **Symetrix 2 Line VoIP Interface Card**.

