⊙ Symetrix

2 Line VoIP Interface Card

The 2 Line VoIP Interface Card is a SIP-based plug-in card for SymNet Edge, Radius 12x8 EX, and Radius AEC products. The 2 Line VoIP Interface Card is a SIP-based plug-in card for SymNet Edge, Radius 12x8 EX, and Radius AEC products. This option card integrates with many SIP-based call platforms including Cisco and Asterisk. 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. Two independent SIP registrations are provided for two simultaneous independent calls per card.

The 2 Line VoIP Interface Card is well suited for applications in conferencing, paging, remote monitoring, and broadcast.

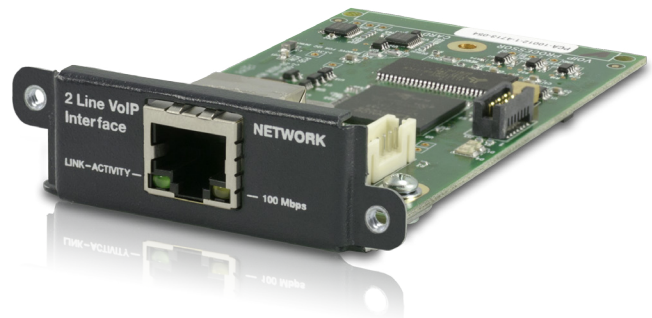### Best-In-Class Deployment and Administration

The 2 Line VoIP Interface Card is easy to deploy and manage. The intuitive configuration software is accessible from both the AV and VoIP LANs giving AV integrators and IT administrators easy access for configuration and maintenance.

Market-Leading, Open Standards Interoperability

Designed for enhanced interoperability while leveraging and complementing existing IT investments, the 2 Line VoIP Interface Card delivers high-definition voice quality and a superior unified communications experience. Designed around open SIP standards the card has been validated with Cisco and Asterisk SIP-compatible call management platforms.

Multiple Control Options

SymNet 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.

Benefits of the 2 Line VoIP Interface Card:

*   Natural sounding wide-band audio for all applications improves communication and collaboration.
*   Leverages existing IT infrastructure investments to reduce telecommunications costs.
*   Web-based management access from both the VoIP LAN and AV LAN enables AV and/or VoIP specialists to integrate more easily into SIP call management platforms.
*   Backwards-compatible API saves time when integrating with existing control systems.
*   Each 2 Line VoIP Interface Card can support two independent rooms.
*   Each line supports two callers for conferencing without an external conferencing service.

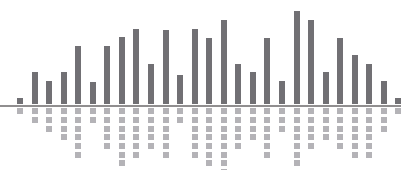## 2 Line VoIP Interface Card Features and Specifications

Audio Features:

*   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.

SymNet Composer Software Features:

*   DTMF decoding and call status logic is natively supported.

Call Handling Features Supported:

*   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 Features Not Directly Supported*:

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

  * Functions can be accessed via feature codes in the validated SIP-compatible call management platforms.

Network, Signaling and Provisioning:

- One 10/100 Mbps LAN interface.
- Password-protected web management access via VoIP LAN or AV LAN on Symetrix SymNet 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.

Specifications

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

Mechanical Data

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	SymNet I/O card, card bracket, 2 black 4-40 Phillips head screws, 3 stainless steel 4-40 Phillis head screws, a quick start guide.	**Field swappable by certified technicians.**

Architect and Engineer Specifications: 2 Line VoIP Interface Card.

This device shall provide two VoIP lines to an SymNet EDGE, RADIUS AEC or RADIUS 12x8 EX frame with standard SIP telephony functions. Up to four of these devices may be installed in a single SymNet EDGE frame for up to eight VoIP lines and up to one of these devices may be installed in a single SymNet RADIUS AEC or SymNet RADIUS 12x8 EX 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, and mount into a SymNet EDGE, RADIUS AEC, or RADIUS 12x8 EX frame I/O card slot. The device shall be a **Symetrix SymNet 2 Line VoIP Interface Card.**