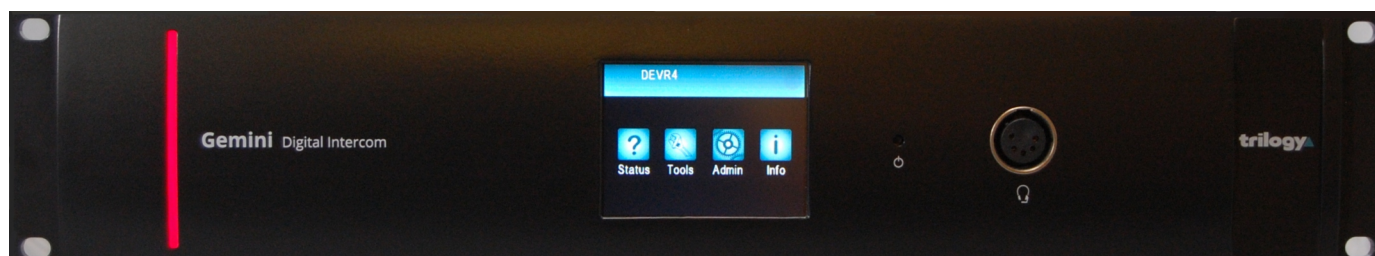


Product Brief

Telephone Expansion Board (FXO)



Description

The Telephone Expansion Board (FXO) is one of a suite of option cards available for the Gemini Intercom system.

The FXO board provides a standard interface to four (4) third-party telephony systems like PSTN lines, PBXs, mobile telephone interfaces and other telephony devices.

Outside callers can dial into Gemini and contact individual users or conferences automatically or manually through an operator.

This option also allows Gemini users to make outside calls from anywhere on the system using any device with DTMF dialing capability.

Key Features

- Provides a standard interface for four PSTN lines or other third-party telephony devices
- Allows outside callers to access a Gemini intercom system and reach individual subscribers or conferences automatically or via an operator
- Enables users to make and receive outside phone calls from anywhere on the system

Incoming Call Modes

- **Auto-answer:** incoming call is greeted with a dial tone, and caller uses a predefined DTMF dial plan to contact a specific user or conference
- **Manual-answer:** incoming call is automatically routed to pre-defined Hardware or software intercom panels for manual call handling

Outgoing Call Modes

- **Line Access from Intercom Panels:** a key on a operator panel is used to access a line and dial a call
- **Line Access from Other Gemini users with DTMF Capability:** devices dial a series of digits to access a line and dial a call

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Specifications

Line Interference	Number of channels DSP Channel usage Signalling DTMF Bypass phone operation Line Impedance Return loss Protection Ring equivalency number Longitudinal balance Common mode rejection ratio (CMRR) Common mode overload level (CMOL) Max trip/ring voltage Max loop current Ringing voltage – detect Ringing voltage – no detect THD Crosstalk Insertion Loss Nominal line TX level Input level adjustment Output level adjustment Freq response	4 per card, Max of 4 option cards per MIU 4 DSP IP channels per card, regardless of whether the channel is routed to a different host Loop start or ground DTMF detection for DDOI routing Phone is switched out of circuit whenever FXO channel is in use CTR21, 600R, 900R or Japan – software selectable >18dB 300-400Hz FCC pt 68 type B longitudinal surge, 1500V: FCC pt 68 type B metallic surge, 800V REN <0.2 >60dB (200-1000Hz); 40dB (1000-4000Hz) On hook >70dB 50-500Hz Vcm=60Vrms Off hook >40dB 50-500Hz Vcm=60Vrms On hook >300Vrms 50-60Hz Off hook >250Vrms 50-60Hz 300V (Correct operation not implied) Recommended max 120V 90mA Typically 22V, min 26V, 17-68Hz Typically 14V, max 18V, 1768Hz <1% at 0dBm, 1kHz <-85dB (inter-channel and inter-card) 0dB -9dBm ± 1dB Via software -9dB to +12dB in steps of 1.5dB Via software -34.5dB to +12dB in steps of 1.5dB. Mute option 300Hz – 3200Hz ± 2dB ref to 1kHz (8kHz sampling)
Connectors	Line Bypass Phone Phone connector pinout Ring Cadence	RJ11 2 pin modular jack socket 1 per channel (4) Pin 3 – tip (B), Pin 4 – ring (A), other pins - unused US Ringtone
Ringling	General	DSP Based adaptive filter providing acoustic & network suppression
Echo Suppression	Tail length (acoustic) ERLE	63.5ms 30dB typical
Environmental	Weight Operating temperature Operating Humidity MTBF	200g 0 to +50°C. Storage -20 to +85°C Relative humidity 0 to 90% non-condensing 80,000 hours

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