


ProGrid Intercom Interface Devices

ProGrid™ Signal Transport Solution



Linking
People
Together



PG4-INTERCOM



PG8-INTERCOM

Key Features and Benefits

- 4 or 8 4-wire intercom ports
- Compatible with Clear-Com and RTS/Telex
- Duplicated 4-wire intercom port wiring with reversed I/O and Rx/Tx
- 2 x 100 Mbit Ethernet ports
- 4 x RS485 serial data connections
- Word Clock input and output
- 2 x optical LINK interface with duplex LC connectors
- USB and RS232 ports for configuration and control
- Dual power supply for redundancy

High performance, low-latency signal transport solutions for transporting, routing and distributing audio, video, intercom and control data.

Description

All PG-INTERCOM devices allow seamless integration of intercom audio and control data from Clear-Com and RTS/Telex intercom panels, interfaces and matrices. The PG-INTERCOM devices are available in two different hardware configurations, RS422 for Clear-Com and RS485 for RTS/Telex. The PG4-INTERCOM devices offer four RJ-45 4-wire intercom ports while the PG8-INTERCOM devices offer eight RJ-45 4-wire intercom ports. The RJ-45 ports are duplicated with reverse wiring so that half the ports are wired for connection to intercom panels or interfaces and half the ports are wired for connection to the intercom matrices.

Network

Redundant fiber connections can be established using the two provided Optocore Optical LINK interfaces. All PG-INTERCOM devices are equipped with either single-mode or multi-mode SFP fiber transceivers. Depending on the selected transceivers, distances from 2300ft (700m) up to 43.5mi (70km) can be covered. The dual redundant ring structure provides maximum safety in a network with low latency. Four RS485 ports allow the transport of a wide range of serial data standards, such as RS422, DMX and MIDI. In addition to the audio signals, video and data signals are transmitted by the fiber connection.

SANE

Each PG-INTERCOM panel is equipped with two SANE ports, which enables send and receive of up to 56/64 audio channels via standard CAT5 cable. Use the SANE ports to expand the number of inputs and outputs on ProGrid FX devices. SANE ports can also be used to send Ethernet data. In addition, PG-INTERCOM devices have two separate LAN ports for 100BaseT Ethernet transmission.

Word Clock

All ProGrid devices are equipped with a Word Clock IN and OUT to enable the synchronization of the devices to an external source and are used to pass on the Word Clock from one device to the next.

ProGrid Configuration Software

The ProGrid Configuration Application Software provides easy access to all configuration and control tools, including routing, naming, storage and recall of configurations on the computer, including an off and online mode with real-time level display.

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Technical Specifications

Intercom Ports

Convention: EIA / TIA – 422 or EIA / TIA – 485

Hardware Standard: IC422/IC485; FCC-RJ45

Analog Line Input

Impedance: 10KOhms

Maximum Input Level: +18dBu

SNR: 115dB (A-weighted)

THD-N @ -1dBFS: >100dB

Analog Line Output:

Impedance: 450hms

Maximum Output:

Level: +18dBu

SNR: 115dB (A-weighted)

THD+N @ -1dBFS: >98dB

SANE, LAN ports

Audio: TIA - 568A/B; Optocore, 200 Mbit/s

LAN: TIA - 568A/B; IEEE - 802.3; 10/100

Mbit/s

Auxiliary Ports

Convention: EIA / TIA-485

Number of Data Channels: 4

Data Channel Type: Digital control data

Data Rate: Up to 10 Mbps

Impedance: Up to 10 Mbps

Termination: 3300hm

Source: ≤ 100hm

Word Clock

Hardware Standard: 75Ohm / BNC

Data Rate: 44.1 / 48 / 88.2 / 96 / 176.4 / 192

kHz (Depending on used sample rate)

Optical Link

Input, Output, Dual: Full bandwidth

Connection: Duplex LC

Protocol: Optocore

Transmission: Full-duplex

Data Rate: 2 x 2Gbps

Optical Wave Guide Cable Lengths:

Multi-mode fiber 50µm; ≤ 700 m

Single-mode fiber 9µm; <10km (70 km on request)

Power Supply

Number of Power Supplies: 2 (with function check and automatic switch-over)

Type: Switch-mode, universal input

Mains Voltage: 100 - 240VAC; 50 - 60Hz;

25VA-typ; 32VA-peak

Remote Control

RS232/USB/Ethernet Port: Interface to PC

Dimensions

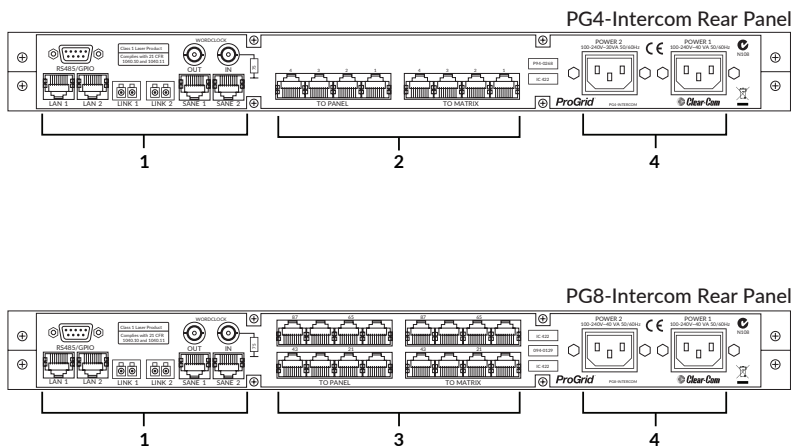
1.73 in x 19 in x 7.87 in (HxWxD)

(44 x 483 x 200 mm)

Weight

6.0 lbs (2.7 kg)

PG-INTERCOM Back Panels



Legend

PG-4 Backs

1. Optocore Module
2. 4 4-wire Intercom Ports
3. 8 4-wire Intercom Ports
4. Dual Redundant PSU

Order Codes

PG8-INTERCOM

PG8-INTERCOM-CC-FX
PG8-INTERCOM-485-FX
PG8-INTERCOM-444-FX

PG4-INTERCOM

PG4-INTERCOM-CC-FX
PG4-INTERCOM-485-FX
PG4-INTERCOM-444-FX

Legend

PG-8 Backs

1. Optocore Module
2. 4 4-wire Intercom Ports
3. 8 4-wire Intercom Ports
4. Dual Redundant PSU