PRP-IM2C1A Interface Module, 2x2 control, 1x1 audio
PROSPERO

▶ Transmits audio and control signals over IP network

▶ PoE power supply, direct connection with a single cable

▶ Compact form factor for cabinet tray mounting
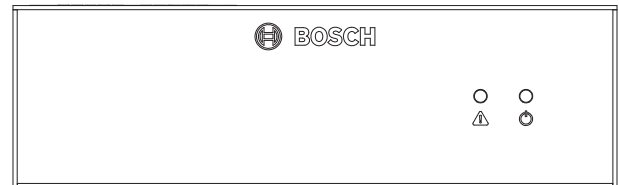
▶ For PROSPERO Public Address systems

The PRP-IM2C1A is a versatile IP module that can connect to the PROSPERO Public Address System via a standard IP network for bi-directional audio and control signaling. Supports PoE, allowing connection to a standard Ethernet switch using a Cat5e cable. The rear panel provides 1 audio input and 1 audio output port for connecting audio sources or amplifiers, as well as 2 control input and 2 control output ports for triggering emergency tasks and linkage control outputs. The screw holes in the housing allow a module to be securely mounted on the cabinet tray. 3 IP modules can be mounted side by side at a 1U height.

Functions

- Connecting to the PROSPERO Public Address System via an IP network.
- 1 line-level audio input for connecting to audio sources.
- 1 line-level audio output for connection to an amplifier.
- 2 dry contact control inputs for triggering emergency tasks.
- 2 relay control outputs, which can be used for emergency task linkage outputs.
- Power supply status and fault status indicators.
- Affixing to the cabinet tray through the screw holes.
- Compact design allows 3 modules to be installed side by side at a 1U rack height.
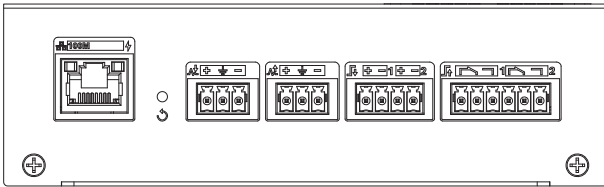
Installation/configuration notes

Front view

Front panel indicators

	Solid yellow	Equipment failure
	Blinking yellow	Unauthorized
	Solid green	On

Rear view

Rear panel controls

	Device reset (Restore factory defaults)	Button

Rear panel interconnections

	Network interface (supports PoE)	
	Analog audio input port	
	Analog audio output port	
	Control input interface 1-2 dry contact	
	Control output interface 1-2 dry contact	

Parts included

Quantity	Component
1	Interface Module, 2x2 control, 1x1 audio
1	Terminal block (set)
1	Safety and user information leaflet

Technical specifications

Electrical

PoE power supply

Rated input voltage (VDC)	48 V
Standard	IEEE 802.3af Class 3
Power consumption	<5 W

Network interface

Ethernet type	100 BASE-TX
Ethernet protocol	TCP/IP, UDP, RTP, TFTP, HTTP, HLS
Audio encoding	MP3, PCM
Interface	1x RJ45

Analog audio input

Frequency response	100 Hz — 18 kHz
Sampling rate	44.1 kHz
Type	1x Line level output
	1x Line level input
Connector	2x 3-pin Phoenix connector
Maximum input/output level	6 dBu
Input impedance	>40 kΩ
Output impedance	<400 Ω

GPIO control input/output

Control input contacts

Interface	2x 2-pin Phoenix connector
Principle	Contact closure
Contacts closed	<5 kΩ
Contacts open	>15 kΩ

GPIO control input/output

Control output contacts

Interface	2x 3-pin Phoenix connector
Principle	Contact switch over (Relay SPDT)
Maximum contact voltage (V)	30 V DC, 250 V AC
Maximum contact current (A)	1 A

Mechanical

Material	Metal housing
Dimensions (H x W x D)	44 mm x 146 mm x 105 mm
Weight	475 g
Color (RAL)	RAL 9017 Traffic black

Environmental

Operating temperature (℃)	-5℃—45℃
Storage and transportation temperature (℃)	-40℃—70 C
Operating relative humidity, non-condensing (%%)	<95%

Ordering information

PRP-IM2C1A Interface Module, 2x2 control, 1x1 audio
IP module, 2 control inputs, 2 control outputs, 1 audio input, 1 audio output, PoE.
Order number **PRP-IM2C1A | F.01U.429.437**