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CM900
Networked Audio Controller

The CM900, as part of the ezRoom Trio and IP speaker, will increase audio performance, classroom control and extend your IT budget. When it's combined with FrontRow's CB6000 wall controller, the CM900 will allow for convenient control of all classroom audio sources. Also, RS 232 and IR control outputs allows for networked control & relay over typically non-networked devices like projectors.

It provides efficient school-wide audio by converting analog to IP audio for network streaming and IP audio back to analog for listening. The built-in 3-input, 32-watt amplifier provides high-quality audio and makes it easy for teachers to use various audio sources for instruction. In addition, the CM900 auto-detects audio source priority and adjusts sound levels to, for example, prioritize an emergency alert message.

KEY FEATURES

- IP audio encoder/decoder
- 3 input analog, 32W, amplifier/switcher
- Network based classroom AV controller
- RS 232 and IR control outputs & relay

KEY BENEFITS

- Networked streaming/analog audio to classrooms and school common areas
- High-quality school-wide audio
- Auto-detect and mute for priority audio alerts
- Network based classroom AV control
- Network control over non-networked devices like projectors
- Reduced installation and on-going maintenance costs

SPECIFICATIONS

Network support	10/100Mb/s (auto sensing)
Serial Baud rate	2400 to 115200 baud
Amplifier type	Class D
Frequency response	20Hz to 20kHz
Signal-to-noise	>84 dB @ 20 Hz to 20 kHz at maximum output (unweighted, with balanced input)
THD	0.1% @ 1kHz, at nominal level (1 watt, 8 ohm load)
Maximum audio output power	2 x 8w (8Ω), 2 x 16w (4Ω)
Power supply	12VDC at 5A
Size	13.1 x 4.2 x 7.9cm/5.18 x 1.68 x 3.12in
Weight	0.37kg/0.82lbs

INPUTS/OUTPUTS

Input power jack

(1) PoE power jack

(1) 2-pin power output jack (12V, 1A)

(1) RJ45 network jacks

(1) RJ45 LAN In jack

(1) RJ45 intercom input jack

(1) RJ45 CLAN power port for CB2000/CB6000

(2) 3.5mm unbalanced inputs and (1) 3.5mm configurable balanced/unbalanced input

(1) 3.5mm audio output jack (unbalanced)

(1) Captive screw loudspeaker terminal left and right

(1) 3.5mm IR control terminal

(2) RS232 serial controls

(1) Relay output

(1) Page override detect

(1) Alarm detect

SAMPLE APPLICATION

Video

Control

Projector

HDMI

HDMI

ezRoom Trio™

Maestro

LAN

FrontRow
Classroom
Control Panel

May 10, 2019
4:17 PM

POWER BT Pair HDMI Vol ▲

Alert Office MORE Vol ▼

Control

CB6000

DVD Player   Computer   Document
Camera

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ISM-02
Microphone

ITM-02
Microphone

Error LED
Status LED
PA Fault LED
Line Out

Relay NO
COM
NC

IR Blaster (3.5mm)

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CM-900

Intercom (RJ45)

PA Out R+
R-
L+
L-

Alarm Detect

Stereo
Mono CH1 Switch

PGO Detect

GND
TX2
RX2
GND
RX1
TX1

RS232

CH3 Line In (3.5mm)

CH2 Line In (3.5mm)

LAN (RJ45)

Stereo
Balanced CH1 Switch

PoE Power In (12Vdc, 2.0A)

CH1 Line In (3.5mm)

Main Power In (12Vdc, 5.0A)

AUX Power Out (12Vdc)

LAN In CLAN Out

CM900