

IP Speaker Kit

Schools can now install an IP-based intercom and paging system in every room without breaking budgets. Using existing networks and FrontRow Conductor for user-friendly and reliable communications and emergency alerts, the IP Speaker and IP Speaker with Intercom help keep students and staff on time, informed, and safe.

Many rooms on campuses don't require voice or media amplification yet they still need audio coverage for bells, announcements and emergency alerts. The IP Speaker Kit is the perfect cost-effective solution for those areas. And if the IP Speaker with Intercom is used, it provides two-way communication between those rooms and the front office. For both options, if used in larger spaces, such as libraries or locker rooms, that need more coverage, add up to three more speakers (power supply needed).

The IP Speaker Kit replaces a 2x2 ceiling tile and mounts flush in a drop ceiling grid. And because our IP Speaker Kit is POE enabled, there is no need to run AC power to the locations where these will be installed.



KEY FEATURES

- Great sound coverage
- Supports up to three additional speakers
- Mounts flush on ceiling
- PoE enabled
- Easy installation

IP Speaker Kits

1000-00178 (does not include talk back)

1000-00179 (includes talk back via CB-75)

1000-00180 (includes talk back via CB-85)

IP Speaker with Intercom

- 1x2 lay-in speaker
- 1x2 plenum ceiling enclosure pre-wired and pre-installed with:
 - CM800Si networked audio amplifier
 - PD-20W high-power POE extractor
- CB-75 or CB-85 Intercom microphone
- Cables and accessories



CB-75



CB-85



CM900 Networked Audio Controller

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

1x2 Ceiling Enclosure



SPECIFICATIONS

Weight	4.08kg/9lbs
Size (wxhxd)	60.3 x 30.5 x 6.4cm/23.75 x 12 x 2.5in

CB-75 / CB-85 Intercom Microphone



SPECIFICATIONS

Power supply	+12V, 100mA, over UTP Cat 5e from CM800Si
Size (wxhxd)	Fits standard North American single-gang electrical boxes

INPUTS/OUTPUTS

(1) RJ45 input jack

1x2 Lay-in Ceiling Speaker



SPECIFICATIONS

Average sensitivity	92dB-SPL 1W/1M
Speaker type	8in full range cone
Impedance	8Ω nominal
Loudspeaker power rating	12W-RMS EIA 426A Standard
Calculated maximum system output	103dB-SPL, 12W/1M
Magnet type	4.8oz BeFe Ceramic
Size (wxhxd)	29.9 x 32.5 x 9.7cm/11.81 x 12.81 x 3.81in
Frequency response	65Hz – 17kHz EIA 426A standard
Nominal coverage angle	100° included angle -6dB/2kHz half space
Audio connection	Pre-cut 17.8cm/7in
Mounting	Replaces existing ceiling tile, mounts in tile grid, built for Plenum spaces

PD-20W High-power POE Extractor



SPECIFICATIONS

Network support	10/100Mb/s (auto sensing)
Power supply	12VDC at 3.5A
Size (wxhxd)	10.8 x 6.4 x 2.3cm/4.25 x 2.5 x .91in

MIDSPAN INJECTOR REQUIREMENTS

POE Type	High Power Midspan Injector
POE Standard	POE IEEE 802.3a f
Device Pin-out	1pins 4,5 DC power (+), pins 7, 8 DC power (-)
POE Protection	Over Temp, Over Current, Over/Under Voltage
Shielded RJ-45 Ports	16 or 24 Ports
Power	> 16.8W per Port (e.g., Tycon 16.8E, 350mA @48V)