PCA-001
RS232 PC Interface
(With Audio Features)

C E

The PCA-001 module provides both RS232 and audio interfaces to the IDRANet network. This allows interface to sophisticated PC based applications (such as IDRATEK's Cortex) and thus access to wider functionality. For example as well as providing the 'brains' and user interface for a complex network application, the PC can also add speech, Internet and telephony functions to the structure. The audio interface capabilities of the PCA-001 are essential to installations that wish to utilise the networked audio/speech interaction features of Cortex. For example delivering general user prompting and spoken information, speech recognition, e-mail readout, telephone message listening etc. at audio module locations.

Whereas a PC and PC interface module are not essential to the running of a 'Reflex' network, they will be required at least temporarily for network commissioning or reprogramming purposes. Multiple PC interfaces can be connected to a given network to provide network access from separate locations or by multiple devices. For example one device might be dedicated to network monitoring whereas another might implement management functions.
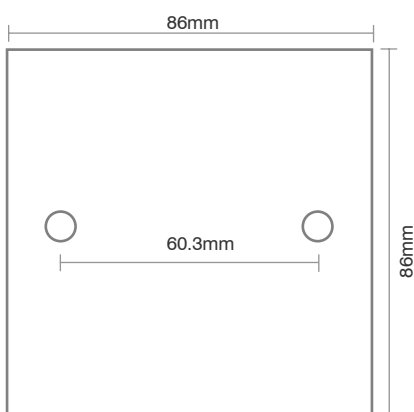
Physical
- Standard 9 Way RS232 Serial Port (Male)
  Note: Connection to a PC must be made via the IDRATEK Cable (CBA-001), and not a standard serial cable.

Functional
- IDRANet/RS232 indicator LEDs
- Baud rate selectable RS232 interface (to 56.7Kbaud) with CTS handshake
- Module reset via RS232 signal line
- 5 data bus interface settings including: Pass through, filtered, snoop, gateway
- Audio bus output interface with digital gain control and isolation switch
- Audio bus input interface with digital gain control
- Audio bus mean level threshold sense with digital threshold setting
- Updateable firmware allows improvement upgrades
- Fully IDRANet Compatible
- Status indicator LED

Electrical
- Operating voltage 12-15V DC
- Current consumption 25mA (nom), 30mA (max)
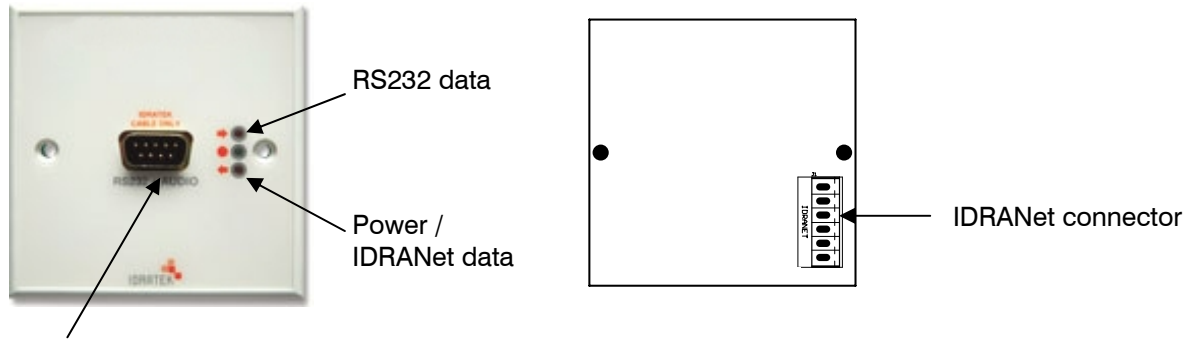
Environmental
- Operating temperature 0°C to +45°C
- Operating humidity 5% to 95% (non-condensing)

Mechanical
- Designed to fit UK standard 35mm deep electrical pattress
- 60.3mm fixing centres using standard M3.5 screws

86mm

60.3mm

86mm

22mm

15mm

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Module Connections

RS232 data

Power / IDRANet data

IDRANet connector

RS232, reset,
Audio I/O
*Connection to PC is via CBA-001
connecting lead (purchased
separately)*

Example Connectivity

IDRANet

PCA-001

SPKR (Blk)
MIC (Red)

CBA-001

Cortex

RS232

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