



IDRATEK

INTELLIGENT AUTOMATION

PCU-001

IDRANet / PC USB + Audio Interface



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The PCU-001 module provides both USB and analogue 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 PCU-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.

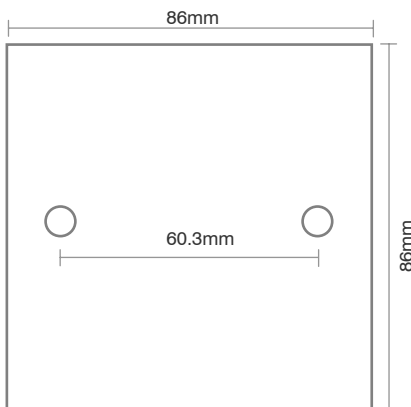


Physical

- Standard USB B style socket
- Standard 3.5mm jack sockets for audio I/O
- IDRANet/USB activity indicator LEDs
- Status indicator LED

Functional

- USB 2.0 interface (appears as virtual COM port on PC)
- 5 data bus interface settings including: Pass through, filtered, snoop, gateway
- Audio bus output interface with isolation switch (allows audio from PC to be transmitted to network)
- Audio bus input interface (allows audio from network to be transmitted to PC)
- Updateable firmware allows improvement upgrades



Electrical

- Operating voltage 12-15V DC
- Current consumption 25mA (nom), 30mA (max)

Environmental

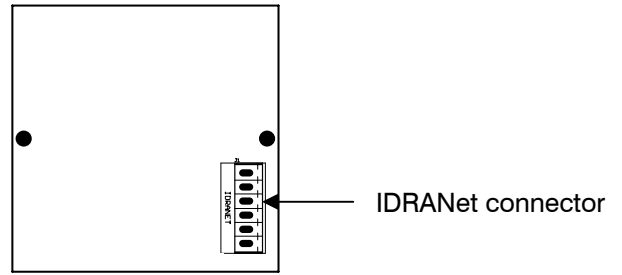
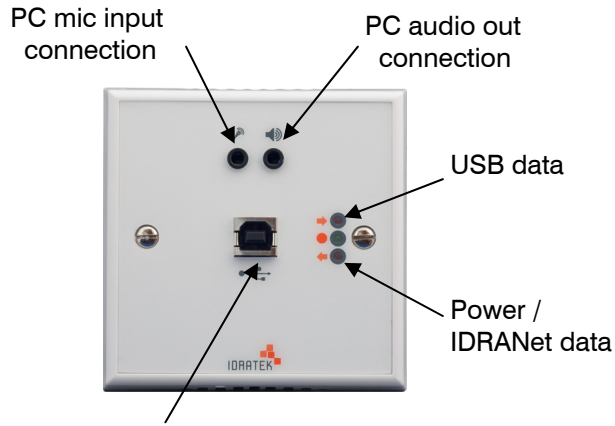
- Operating temperature 0°C to +45°C
- Operating humidity 5% to 95% (non-condensing)

Mechanical

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



Module Connections



USB 2.0
 Connection to PC is via CBU-001 lead pack (purchased from IDRATEK or elsewhere separately)

Example Connectivity

