

## PRODUCT SPECIFICATION

The Rack Mount IPnet Router links all TACERA room and corridor devices to the Nurse Call LAN, and provides monitored and controlled power via the network cable to IPnet room devices at 120 kb.

The enclosure is 3RUs high and holds up to 10 router cards. Each router card easily slots into the enclosure, and has a metal base, PCB with connectors, and clear and concise labels indelibly printed on the board.

Power to each router card is supplied by a battery-backed 24-32 V DC UL listed power supply, as the current consumption of 30 connected IPnet devices exceeds the power rating of standard POE switches.

IPnet Router Cards are connected on the Nurse Call LAN to the IP Connect Server, which is the alarm handler, message bus and notification device integration server for a TACERA Nurse Call System.

Ethernet connectivity is via 2 Ethernet 8-way modular connectors compatible with any 10/100/1000 Mb TCP-IP Ethernet network. These 2 ports allow multiple router cards to be connected in series, or directly connected to standard or POE Ethernet switches.

Router cards are compatible with any TACERA IPnet device, such as Over Door Lights, callpoints and lighting controls. Up to 15 IPnet devices can be connected per port on a CAT5/6 cable length of 300 m.

When each callpoint or device is connected on the IPnet network, the router card identifies their individual MAC address, assigns a DHCP IPnet address and uploads all operating characteristics for the device.

The operation of each room's Over Door Light can be individually programmed or operated from a global template. The Over Door Light colours and flashing rates for each callpoint priority are selectable via the web-browser application. This includes multiple colour segments for selectable call priorities.

The web-browser configurator has sections to allow for simple plug-and-play installation to a predefined template, or to modify any individual room, ward or site characteristic to meet client requirements.

The router cards firmware and callpoint configuration files can be upgraded in real time without shutting down the system. This allows changes to be made on a working system without interruption to the operation of the system.

The router card and all IPnet devices are constantly monitored for current and voltage, plus each connected and registered device is "pinged" 50 times a second. The router card has an internal data log of the past 100 events that can be viewed in real time for network testing.

Remote diagnostics by a web-browser is standard, and allows each device to be functionally tested remotely and its current status to be displayed in real time. Detected faults are reported immediately.

The router card's electronics are protected against power surges, near-lightning strikes, cable shorts and power reversals.

Each router card operates on a voltage between 24 and 32 V, with current consumption of 120 mA at nominal operating voltage of 24 V without any IPnet devices.

CISPR 22 Class B certification ensures that the router card meets the new international emission requirements for hospitals and aged care facilities.

Each IPnet Router Card complies with the international RoHS Directive for the restriction of hazardous substances in electronic equipment.

### Dimensions & Specifications

Height:	132 mm	Depth:	160 mm
Width:	485 mm	Weight:	4,520 grams
Mounting Method:	19" rack-mount enclosure	Wall Box size:	N/A
Temperature:	0 – 50°C	Humidity Range:	0 – 85% non-condensing
Connectors:	Power - plug-in screw terminal IPnet - 2 x RJ-45 socket Ethernet - 2 x RJ-45 socket	Cable Sizes:	Power - 2 core (15AWG) 1.5 mm <sup>2</sup> IPnet and Ethernet - CAT5, CAT5E, CAT6, CAT6E
Current Consumption for each router card:	Standby: 105 mA Maximum: 1.5 A	Voltage:	24 to 32 V DC

### Ordering Options

Code	Description	Order Options
IP-HUB	Rack Mount IPnet Router Enclosure, 10 slots	The IP-HUB is not sold with any Router Cards or Blank Plates - these must be ordered separately.
IP-CCT/H	Rack Mount IPnet Router Card and Holder, 30 Devices	
IP-CCT/BLANK	Rack Mount IPnet Router Enclosure Blank Plate	

Designed to comply with:

- AS 3811: Hard-wired patient alarm systems.
- HTM 08-03: Bedhead services.
- UL 1069: Hospital Signaling and Nurse Call Equipment.
- IEC 60601-1, UL 60601-1 and CAN/CSA C22.2 No. 601.1-M90: Medical electrical equipment - Part 1: General requirements for basic safety and essential performance.



Manufactured in general accordance with the requirements of international quality assurance standard ISO9002.

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