PRODUCT SPECIFICATION

The 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 router has a surface mountable metal base, PCB with connectors, and clear and concise labels indelibly printed on the board. There is a slimline plastic cover to seal against moisture and dust (as per Australian Standards), and a powder-coated metal cover is available as an option to meet UL certification.

Power 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 Routers 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 routers to be connected in series, or directly connected to standard or POE Ethernet switches.

Routers are compatible with any TACERA IPnet device, such as Over Door Lights, nurse 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 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 operate 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's 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 IPnet Router 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 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's electronics are protected against power surges, near-lightning strikes, cable shorts and power reversals.

It 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 meets the new international emission requirements for hospitals and aged care facilities.

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

Dimensions & Specifications

Height:	56 mm	Depth:	132 mm
Width:	195 mm	Weight:	750 grams
Mounting Method:	Surface 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^2 IPnet and Ethernet - CAT5, CAT5E, CAT6, CAT6E
Current Consumption	Standby: 105 mA Maximum: 1.5 A	Voltage:	24 to 32 V DC

Ordering Options

Code	Description	Order Options
IP-CCT	IPnet Router, 30 Devices	/UL: UL listed for the USA market

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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