

B574 / PC803

Edge Router / Room Gateway Device

NNCOM's B574 is an Edge Router that bridges wired Ethernet (802.3) networks with INNCOM's Deep Mesh RF network. In contrast, the PC-803 is an RF-Ethernet Protocol Converter typically installed in the guestroom or in other locations in proximity to the guestroom and again is used to bridge wired Ethernet to the room-level RF network. These devices are used to form either in-room (PC-803) or backhaul networks (B574) with up to 100 rooms per PAN (Personal Area Network). It supports multiple IP protocols (UDP, ICMP, DHCP).

OVERVIEW

INNCOM's multifunctional controller works in two configurations to facilitate different Integrated Room Automation System operations:

As the Edge Router, it networks Ethernet to INNCOM's Deep Mesh RF network. It can concurrently form both in-room and backhaul networks with up to 100 rooms per PAN ID. It supports multiple IP protocols (UDP, ICMP). The expanded addressing facilitates transport reliability and multicasting. The Edge Router enhances security and offers RF-to-Ethernet protocol conversion, with the availability of a PoE power supply for Power Over Ethernet applications.

As the PC-803, the device acts as a room gateway converting in-room S5bus, IR, or RF traffic to Ethernet towards the server. (Note: The radio and IR5 module are mutually exclusive; both cannot be populated simultaneously in the same unit. The PC-803 also can accommodate external IR Eye.) The PC-803 mirrors the TCT in functionality with the addition of RF capability. A software flavor (MI, multiple instances) of the PC-803 allows the device to offload multiple guestrooms using either 802.15.4 RF or S5bus towards the Ethernet network. pressed and held the light brightness will ramp up or dim down depending on the configuration.



B574 Edge Router



PC-803 Room Gateway Device

FEATURES & BENEFITS



Supports up to 100 rooms depending on the guestroom application deployed and the selected RF environment at the site



RF Wireless Communication
Supports S5Bus and IR (PC 803 only)



Wall or Ceiling Mount on standard 2-gang ring or DIN rail mountable
Compact physical dimension



May be integrated with the INNCOM Room Automation System over the Deep Mesh Network with INNCOM's INNcontrol 3 software



Flexible Network options converts in-room S5bus, IR, or RF traffic to Ethernet towards the server

B574 / PC803 Edge Router / Room Gateway Device

B574 / PC803 SPECIFICATIONS	
DIMENSIONS	86mm x 78mm x 40mm (DIN rail mount); 20.65mm x 22.25mm (Edge Router)
RF DATA RATE	250kbps
INDOOR/URBAN RF RANGE	100ft
RF TRANSMIT POWER	10mW (+18dBm) for B574, 1mW (+0dBm) for PC-803
RF RECEIVE SENSITIVITY	-94.6dBm
FREQUENCY BAND	AES-128
ENCRYPTION	1°C (2°F) between heating and cooling
NETWORK TYPOLOGY	Deep Mesh
MAXIMUM DEVICES PER IP NETWORK SEGMENT	1000 room gateways; 100 edge routers
MAXIMUM ROOMS PER RF MESH NETWORK	Up to 200 (depending on application profile and site situation)
MAXIMUM IN-ROOM DEVICES PER ROOM	Up to 50
SUPPLY VOLTAGE	12VDC
CURRENT CONSUMPTION	200mA
OPERATING AMBIENT TEMPERATURE	0-40 °C
APPROVALS	FCC Part 15, CE Mark ETSI, RoHS
CONFIGURATIONS	B574 logic board (basic): 80mA Logic board w/ 0dB radio: 120mA Logic board w/ 20dB radio: 175mA Logic board w/ IR5 eye: 200mA



B574 Din Rail Mounted

For more information

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