

ETHERNET ROUTER – B573

DESCRIPTION

The B573 Ethernet Router is an INNCOM Integrated Room Automation System (IRAS) device that links data from room-level networks with building wide networks. Building wide networks can be Ethernet 802.3 or wired RS-485 infrastructure.

The B573 is designed to receive data from multiple co-existing room-level networks. It then manages and routes the aggregated data to the building network. The B573 is a key component in an integrated property network strategy.

APPLICATION

The B573 is designed to support a group of 1 to 100 rooms depending on the application.

When configured as an MBX Gateway, the B573 acts as a protocol converter. There are two main mechanisms in place that operate at the same time: the INNCOM server has a UDP-based connection to the B573 MBX that typically is routed through a firewall that ensures that the public and private network stay separated. Through this link, the server can receive and transmit traffic to the guestrooms. Secondly, in layer-2 (MAC layer) protocol between the B573 MBX and the TCT devices in each guestroom. This traffic often shares a shared backbone (e.g., HSIA, VoIP, VoD, et al).

If configured as an FLN5 Gateway, the B573 Floor Level Network (FLN5) can maintain two RS485 networks (A + B) that each can link up to about 50 rooms. These floor network segments are being routed into an Ethernet backbone that is typically part of the back-office (private) network infrastructure.

Lastly, the B573 Room Gateway is a high-end replacement for a low-cost TCT device as seen in the B573 MBX application. The B573 Room Gateway supports additional UDP protocol support that allows up to four Tablet PC (or other IP-based UI devices) to directly interface with P5 guestroom equipment. The direct, high-level interface of UI appliances with guestroom equipment bypasses the wider backbone network and server infrastructure with the result that the system has fewer components in the fault tree, thereby making the system more fault-tolerant.

OPERATION

The B573 is typically configured at the time of installation with a static IP address and other network attributes.

The B573 has an array of LED's that indicate the status of power, diagnostics, transmit and receive. It also has a 2 line, 24 alpha numeric LCD to facilitate programming and troubleshooting.

Once installed and commissioned, the B573 does not require scheduled maintenance. The central server monitors its operation and indicates malfunctions, should they occur.

FEATURES

- Supports Ethernet 802.3
- Supports Wired RS-485 infrastructure
- On-board LCD
- Serial Port for local diagnostics

SPECIFICATIONS

- Model number: B573
- Power 12 VDC (regulated), 100mA; Optional line voltage Power Supply is available (110-120VAC, 50/60Hz)
- Storage: 68-140°F, non-condensing (20-60°C)
- Operating: 50-104°F, non-condensing (10-40°C)
- Protocols: ARP, ICMP, UDP, IP4
- Ethernet: 10 base T
- Dimensions 13" x 9" x 1 5/8" (47 cm x 22.86 cm x 4 cm). Fits 1 U rack with side brackets (included)
- Approvals: FCC Part 15, CE Mark

