

Ethernet Network Interface Module

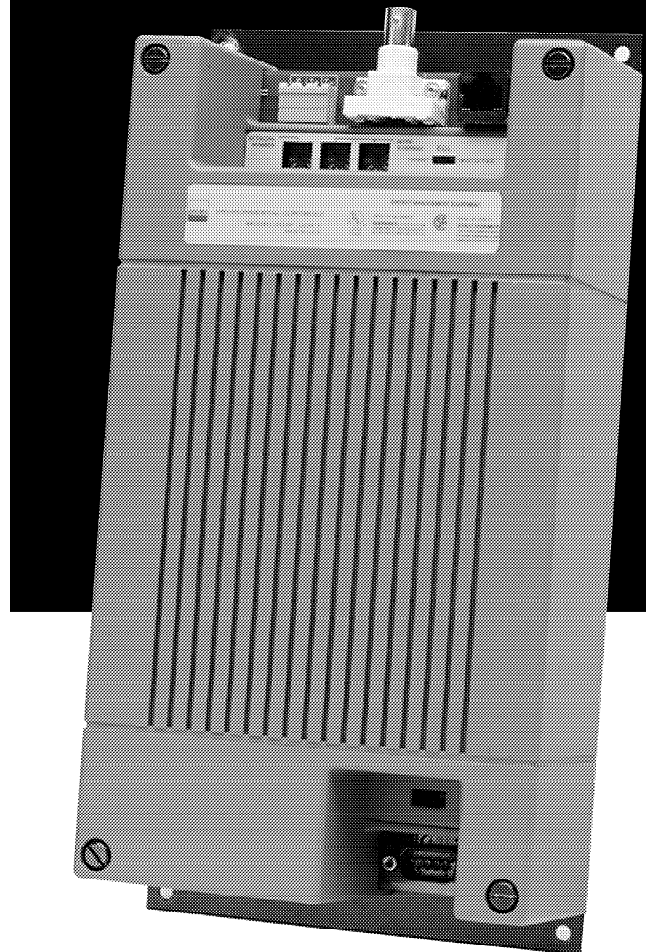
The Ethernet Network Interface Module (NIM) is an optional plug-in Internet Protocol compliant communications controller for the NETWORK 8000[®] Global Control Module (GCM[™]) series GCM-86XXX. It provides a reliable peer-to-peer bus architecture for up to 128 GCM building automation system controllers. Designed to comply with the worldwide Internet Protocol (IP) standard means the Ethernet NIM offers the advantages of using an authenticated protocol standard along with the proven quality of the NETWORK 8000 system.

Applications

Ethernet NIM controllers allow Local Area Network (LAN) connectivity between the GCM-86XXX building automation system controllers in new or existing facilities such as universities, manufacturing plants, or large corporations which require the use of universal wiring systems for high speed networking. In addition, Ethernet NIM controllers can coexist and pass data over the same high speed LAN that other IP compliant devices, such as office automation equipment and manufacturing process controls, reside on.

Systems Connectivity

The Ethernet NIM connects directly to an industry standard LAN utilizing Ethernet 10BASE-T (Twisted Pair) or 10BASE-2 (ThinNet) communications media. ThinNet segments can be networked via Fiber Optic Inter-Repeater Links (FOIRs) using coax to fiber media adapters. Using Twisted Pair media NIMs are connected to central concentrators or hubs in a star configuration. Hubs may be concatenated to form larger networks.



Features —

- Worldwide industry standard Internet Protocol provides advanced connectivity capabilities.
- Support of four logical networks with 32 nodes per logical network provides flexible system expansion.
- 10 Mega Baud data communications via Ethernet assures throughput for all sizes of systems.
- Designed to use existing or new Ethernet networks helps to protect owner investments.
- Network wide reporting capabilities to multiple printers, workstations, modems, etc. Hardware Specifications



ENVIRONMENTAL CONTROLS

1354 Clifford Avenue P.O. Box 2940 Loves Park, IL U.S.A. 61132-2940

Dimensions 5.7" high x 11.25" wide x 3" deep
(145 mm x 286 mm x 76 mm).

Power Supply Input Supplied from GCM-86XXX.

Maximum Power Consumption Supplied from GCM-86XXX.

Transient Compliance Meets requirements of ANSI/IEEE C62.41.

Agency Approvals

FCC, Class A.

UL-916 (File # Category) (pending).

UL-864 (File # Category UUKL and UDTZ (pending).

CSA (File #) (pending).

Ambient Limits

Operating Temperature 32 to 122°F (0 to 50°C).

Shipping and Storage Temperature

Humidity Up to 85% RH, non-condensing.

Diagnostic Display Diagnostic Light Emitting Diodes (LEDs) are provided to indicate proper operation of processor and trunk communications.

Communications

Communications between GCM-86XXXs is accomplished via this optional Network Interface Module (NIM), which provides Ethernet-based communications at a 10 megabit transmission rate over twisted pair, non-shielded cable (10BASE-T) or ThinNet coax (10BASE-2) and supports Internet Protocol (IP) messaging through IP compliant routers.

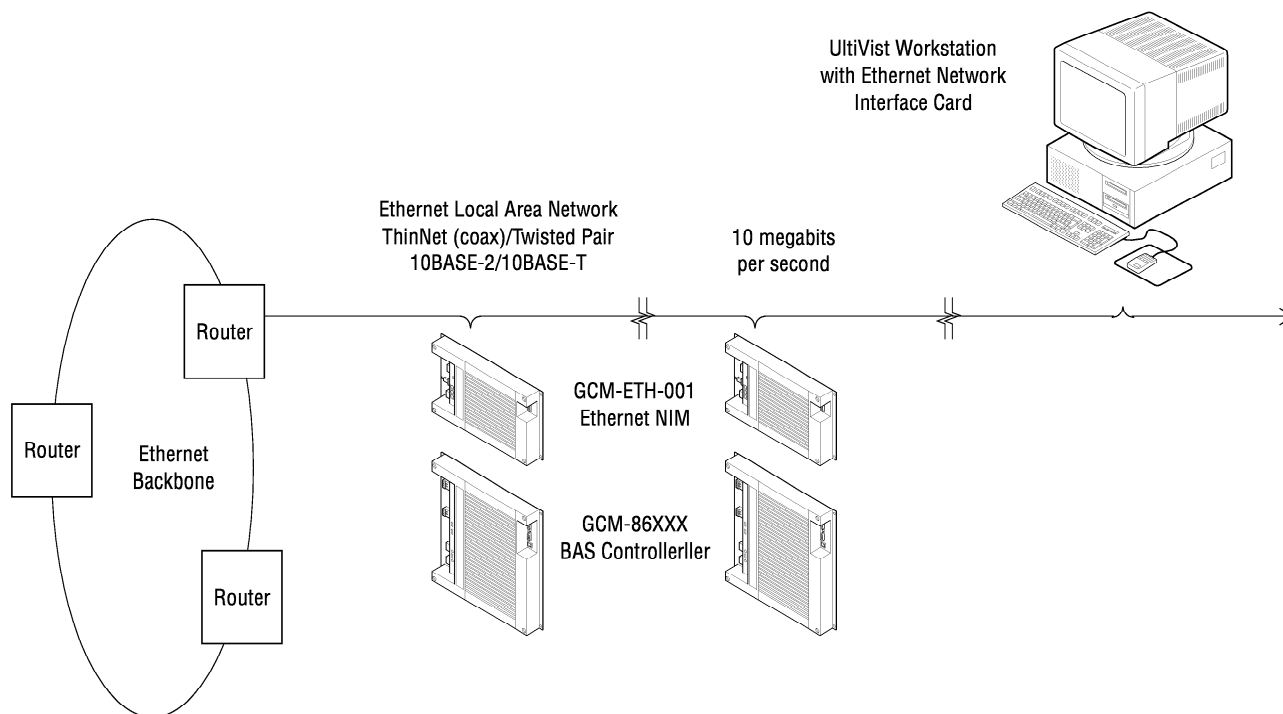


Figure-1 NETWORK 8000 GCM System Architecture — Ethernet Topology.

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