Intelligent Fire Integrator
Johnson Controls Echelon® Gateway

General
The Echelon® Gateway is an intelligent gateway interface for the IFI facilities monitoring workstation. This gateway facilitates systems monitoring and integration for fire panels. Network Input Output Nodes (NION®s) are used as the interface between the monitored equipment and the network.

The PC-based version of the gateway is the network interface for a proprietary LonWorks™ network and resides in IFI workstations. The LonWorks network operates at 78.5 Kbaud that support local and remote monitoring and can be extended over shared IP or standard phone lines.

Features
- Enable the IFI workstation to monitor and control competitive fire panels and security.
- High-speed proprietary LonWorks network that supports wire or multi-node fiber media.
- Integrate fire panels from Simplex, EST, and more using NION interfaces.
- Monitor process control devices with discrete network input/output nodes.
- Routers and repeaters available to increase distance, network configuration or change media (FT-10, fiber).
- Each node is continuously monitored and a fault condition will be reported if any node becomes disconnected from the network.
- Multiple clients can access the gateway simultaneously.
- Gateway redundancy for network survivability.

Compatibility
- The Echelon Gateway is compatible with IFI and interfaces to a proprietary LonWorks network for the following devices:
  - NION-NPB
  - NION-16C48M
  - NION-2C8M
  - 4WRMB
  - ROUTMB
  - NCB-IM
  - NCB-EL
  - NCB-FL
  - SMX Transceivers
- The Echelon Gateway is compatible with the following UL-Listed fire alarm control panel interfaces:
  - Johnson Controls IFC-1010/2020
  - Johnson Controls IFC-200/300/400
  - Johnson Controls IFC-640
  - Johnson Controls IFC-3030, IFC-320, IFC2-640, IFC2-3030 and JDVC
  - Johnson Controls JNCA-2, JNCA and JINA
  - NFN Network
  - Simplex® 4010
  - Simplex® 4020

Specifications
(PCI-based version)
- Requires an IFI Workstation
- PCI PC card (supports wire connections only).
- Operating temperature: 0°C – 49°C (32°F – 120°F).
- 93% humidity non-condensing at 30°C (86°F).
- **FT-10 (Free Topology) network allows**: (a) 8,000 foot point-to-point; (b) 6,000 foot bus topology with a maximum of 64 nodes; or (c) 1,500 foot maximum radius from origination with multiple T-taps.

Standards and Codes
The Echelon Gateway complies with the following UL Standards and NPFA 72 Fire Alarm requirements:
- UL 864
- UL 1076

Listings and Approvals
These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.
- UL: S1570, S3250
- ULC: S5526; S6010, S1570
- CSFM: 7300-0554;156

Ordering Information
JECH-GW-PC-W: Echelon Gateway PC card for wire media (PCI card). Included in IFI-IP(UL-listed workstation)**
WSSUP**: Workstation Supervision PC Card (ISA card).
**If adding to an existing system, please provide Customer Service with the 5 digit software key number of your workstation. An upgrade authorization will be provided to you.

Additional PC version Gateway required components: