GE
Security

Alliance Intrusion Detection
Network Interface

Overview

Increase the flexibility of the Alliance integrated security platform with TCP/IP communications through the AL-1806 network interface. Running Alliance panels over a network brings the efficiencies of integrated security as well as remote administration and monitoring to security systems.

The AL-1806 combines TCP/IP connectivity with Alliance's powerful software (Alliance Professional for single-seat performance or Alliance Enterprise for a Server with multiple workstations) brings the full power of integrated security to your applications.

The AL-1806 acts like a gateway between the Alliance control panel and automated security management systems across WAN or LAN, by interfacing with central station receivers, like GE's Osborn Hoffman receiver.

Administer and monitor access and security for Alliance panels in multiple-facility applications or interface with other network devices, like digital video multiplexer/recorders or video cameras, when combined with Alliance security management software.

Efficient communications are assured with event-driven communications, adjustable poll rates, and small information packets: yet the AL-1806 provides the flexibility of alarm event reporting in SIA, XSIA, or CID formats.

Operation of the AL-1806 is accomplished by connecting to an AL-1801 Serial Computer interface port. Automated features of the AL-1806:

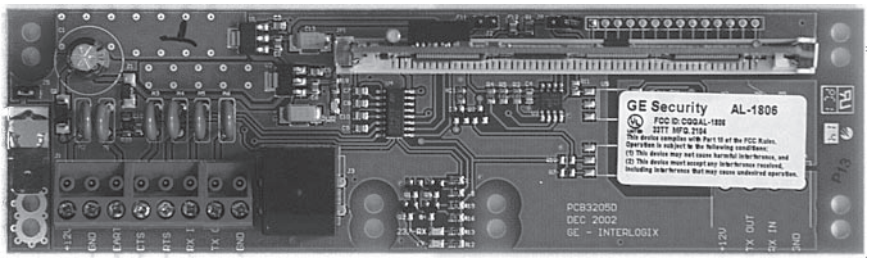
- Auto enroll
- Restart communications
- Local Event Log
- System status
- CPU load and reboot
- System uptime
- Flash ROM versioning

Features

- IP communication for Alliance control panels
- Alarm reporting over IP using SIA, XSIA, and CID (Contact ID) formats
- TripleDES encryption and two fish encryption
- Static IP addresses–no proxy
- Configurable port number through an Internet browser
- Adjustable poll rate for low bandwidth requirements
- Firewall rule settings
- Provides network interface for self-administered security systems or interface with central station receivers like GE's Osborne-Hoffman, for onsite alarm monitoring

AL-1806

Alliance TCP/IP network interface



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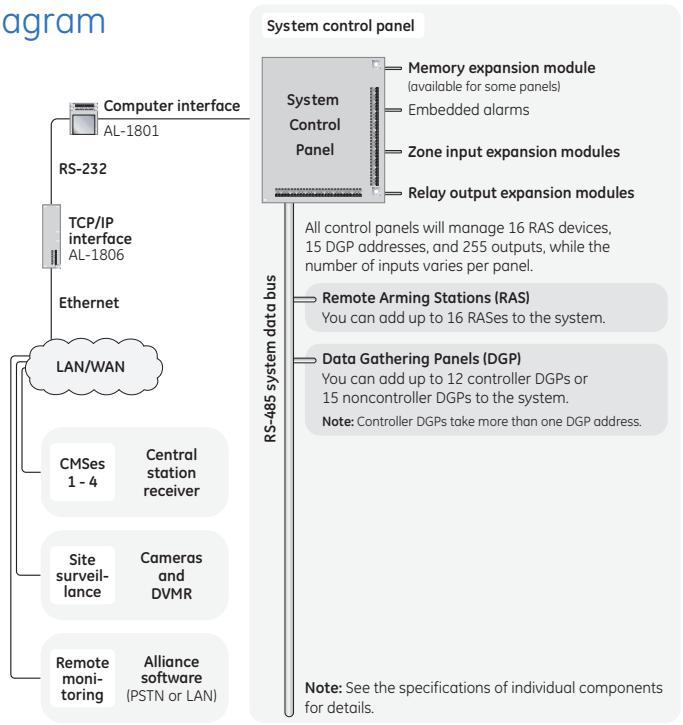
System Block Diagram



Specifications

Reporting options	CID/SIA to network receiver Upgradeable software available from GE Security
Reporting backup	POTS dialer from the Alliance panel for alarm events to central monitoring station
Data encryption	TripleDES encryption and two fish encryption
Data reset and refresh functions	CPU reset via jumper (J2) Data reset to factory defaults via jumper (J8) CPU reset and restart communications, via browser
Typical TCP packet sizes	Poll from software to panel: 85 bytes Acknowledge, no data, panel to software: 85 bytes Acknowledge, COS event, panel to software: 99 bytes Acknowledge, SIA/CID event, panel to software: 107 bytes
Network primitive frame sizes	Ethernet frame: 64 to 1522 bytes IP frame: 20 bytes plus data TCP frame: 20 bytes plus data UDP frame: 8 bytes plus data
Data connection	To network: 10 Mbit RJ45 Ethernet Interface To Alliance panel: AL-1801 Serial computer Interface board, Port 1 connection
Power supply	12 VDC direct from auxiliary power from the panel or other 12 VDC
Backup power	Battery supply through the Alliance panel
Current consumption	80 mA
Dimensions	Alliance Size 3 card: 6.93 x 2.05 in. (176 x 52 mm)
Onboard status indicators	Power LED; Ethernet link and activity LED; RS-232 data transmit and receive LED
Regulatory	FCC Rules Part 15 UL 294, UL 365, UL 609, UL 1610, UL 1635

Ordering information

AL-1806	Alliance TCP/IP network interface
AL-1801	Serial computer interface

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