

Ethernet Module – NEW, HIGH SECURITY Features

The Ethernet Module is an intelligent and compact communications module, combining both alarm signalling and remote servicing facilities, over Ethernet networks.

Protocol

The Ethernet Module connects directly to 10 Base T Ethernet networks and supports both the TCP/IP and the UDP/IP protocols.

Each Ethernet Module contains a unique Ethernet or MAC (Message Authentication Code) address.

Alarm signalling formats

As a communicator, the Ethernet Module transmits alarm signals via primary and backup signalling paths to Ethernet receiver applications and Alarm Monitoring using the following formats:

- SIA (Levels 0-4)
- Microtech

Alarm Monitoring is a PC package designed to receive event signals from the Galaxy intruder control panel, using the Microtech protocol.

Data encryption

The Ethernet Module includes data encryption for both alarm signalling and remote servicing.

The module uses 128 bit Private Key Advanced Encryption Standard (AES) for message data encryption and 1024 bit RSA (Public Key) for exchange of the AES Private Key.

Alarm path supervision

The Ethernet Module allows the integrity of each of the programmed alarm signalling paths to be monitored, ensuring that, in the event of path failure, an alarm is generated at both the control panel and the receiver station.

Compatibility

The Ethernet Module is compatible with Galaxy intruder control panel software V4.00 and later.

The encryption and path supervision features are only available with Galaxy control panel software V4.5 and above.

The Ethernet Module is compatible with Galaxy Gold V6.xx and above and Alarm Monitoring V3.xx and above.

Remote servicing

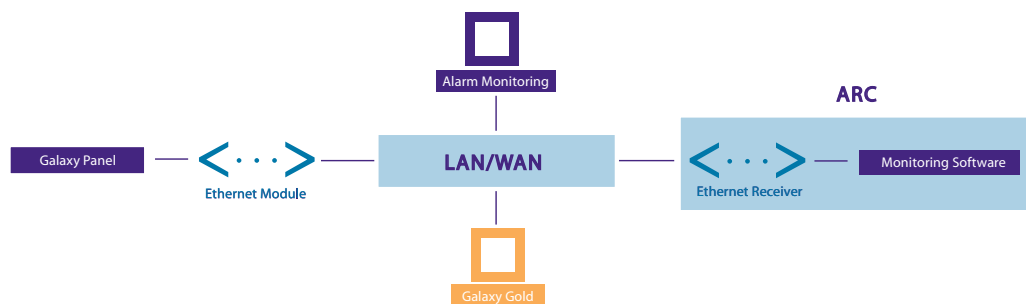
For remote servicing, the Ethernet Module can be used in conjunction with Galaxy Gold and SDG PC applications to remotely access the Galaxy control panel over an Ethernet network, allowing copying and overwriting of the program and on-line servicing.

Galaxy Gold is an advanced high performance software application that enables remote servicing and programming of the Galaxy intruder control panel.

Security Directors Gold (SDG) is a sub-set of Galaxy Gold for security managers. SDG supports full user management of the Galaxy system.

Conformity with standards

- 93/68/EEC:CE Marking Directive



Benefits of communication via Ethernet Module

As part of the Galaxy Communications range, the Ethernet Module provides a high, security solution for alarm signalling and remote monitoring in a single module.

What can the Ethernet Module do for you?

- capitalises on the capabilities of Ethernet networks
- designed to meet the criteria for alarm signalling and remote servicing specified in EN50131-1 Grade 4
- ensures timely transmission of alarm events
- provides verification of alarm transmission path integrity
- ensures data security
- provides a low cost intruder alarm communication option

Commercial and Industrial Solutions

galaxy

communications

the ultimate intruder alarm system



Galaxy Communications Options

- The Galaxy control panels support a wide range of communication options over various network types, including PSTN, ISDN, Ethernet and direct serial
- Each of the communication options available on the Galaxy can be used for both alarm signalling and remote servicing

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Telecom Module

The Telecom Module is an intelligent communication peripheral which supports alarm signalling and remote servicing for the Galaxy intruder control panel range over PSTN networks.

Alarm signalling formats

As a digital communicator, the Telecom Module transmits alarm signals using a choice of formats.

Available formats are:

- Ademco Fast Format DTMF (Dual Tone Multiple Frequency)
- SIA (Security Industry Association)
- Ademco Contact ID
- SMS (Short Messaging Service), available when used with Galaxy panel software V4.00 and above
- Microtech (Ademco Microtech proprietary protocol for use with Alarm Monitoring.)

Alarm Monitoring is a PC package designed to receive event signals from the Galaxy intruder control panel, using the Microtech protocol.

Remote servicing

For remote servicing the Telecom Module can be used in conjunction with Galaxy Gold and Security Directors Gold PC applications to remotely access the Galaxy intruder control panel, allowing copying and overwriting of the panel program and on-line servicing.

Galaxy Gold is an advanced high performance software application that enables remote servicing and programming of the Galaxy intruder control panel.

Security Directors Gold (SDG) is a sub-set of Galaxy Gold for security managers. SDG supports full user management of the Galaxy system.

Compatibility

The Telecom Module is compatible with all versions of Galaxy Gold/SDG software.

The Telecom Module is compatible with all Galaxy 8, 18, 60, 128, 500, 504 and 512 control panels with software versions V1.04 and above.

PSTN line monitoring

The Telecom Module monitors the following conditions on the telephone line:

- Loss of d.c. line voltage (less than 3 V d.c.)
- Loss of dial tone
- Pre-dial ringing

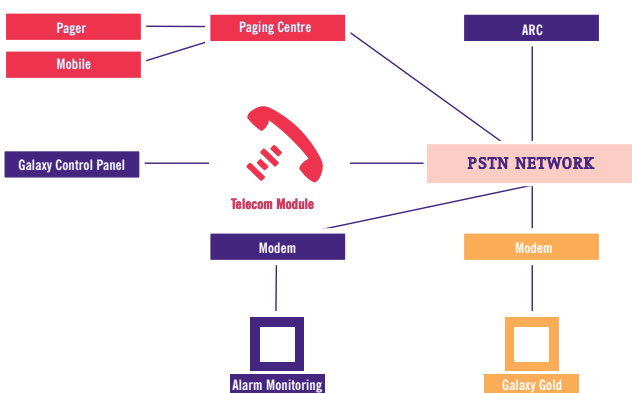
Each of these functions can be individually selected on Galaxy control panel software V1.04 and above.

Benefits of communication via Telecom Module

- Event signalling to ARC in multiple formats
- Remote servicing using Galaxy Gold
- Alarm and MAX event monitoring via Alarm Monitoring
- Event Log signalling directly to mobile phones and pagers using SMS messaging

Conformity with standards

- ETSI CTR21 1998: pan-European approval for connection to the analogue Public Switched Telephone Networks (PSTN)
- 93/68/EEC:CE Marking Directive
- 99/5/EEC:R&TTE Directive



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RS232 Module

The RS232 Module provides full duplex serial communication between Galaxy intruder control panels and PCs or printers. The RS232 Module is also designed as a storage unit for Galaxy intruder control panel programming.

Alarm signalling formats

Event signalling to PC using the following formats:

- SIA
- Microtech

Alarm Monitoring is a PC package designed to receive event signals from the Galaxy intruder control panel, using the Microtech protocol.

Remote servicing

For remote servicing the RS232 Module can be used in conjunction with Galaxy Gold/SDG PC application to remotely access the Galaxy intruder control panel, allowing copying and overwriting of the program and on-line servicing.

Galaxy Gold is an advanced high performance software application that enables remote servicing and programming of the Galaxy intruder control panel.

Security Directors Gold (SDG) is a sub-set of Galaxy Gold for security managers. SDG supports full user management of the Galaxy system.

Compatibility

The RS232 Module is compatible with all versions of Galaxy Gold/SDG PC application software.

The RS232 Module is compatible with Galaxy control panels with software versions V1.04 and above.

Additional Features

- Printer interface emulation
- Selectable baud rate 300 to 19200 bps
- Non-volatile memory (28-day powered down storage capability on fully charged battery)

Note: The storage capability is dependent on the charge of the on-board battery. The RS232 Module should be connected to a 12 Vd.c. supply for four days (approx.) to fully charge a new or discharged battery.

Conformity with standards

- 93/68/EEC:CE Marking Directive

ISDN Module

The ISDN Module is an intelligent communications peripheral which supports alarm signalling and remote servicing of the Galaxy intruder control panel over ISDN/2e communications networks.

Alarm signalling formats

Event signalling to ARC in multiple formats over an ISDN network.

Available formats are:

- Ademco Fast Format DTMF (Dual Tone Multiple Frequency)
- SIA
- Ademco Contact ID
- Microtech

Alarm Monitoring is a PC package designed to receive event signals from the Galaxy intruder control panel, using the Microtech protocol.

Remote servicing

For remote servicing the ISDN Module can be used in conjunction with Galaxy Gold/SDG PC application to remotely access the Galaxy intruder control panel, over an ISDN network, allowing copying and overwriting of the control panel programming and on-line servicing.

Galaxy Gold is an advanced high performance software application that enables remote servicing and programming of the Galaxy intruder control panel.

Security Directors Gold (SDG) is a sub-set of Galaxy Gold for security managers. SDG supports full user management of the Galaxy system.

Compatibility

The ISDN Module is compatible with Galaxy Gold/SDG PC application software V5.xx and above and Alarm Monitoring V2.xx and above.

The ISDN Module is compatible with Galaxy intruder control panels with software versions V1.25 and above.

Conformity with standards

- ETSI CTR3
- 89/336/EEC EMC Directive
- 93/68/EEC CE Marking Directive
- 99/5/EC R&TTE Directive