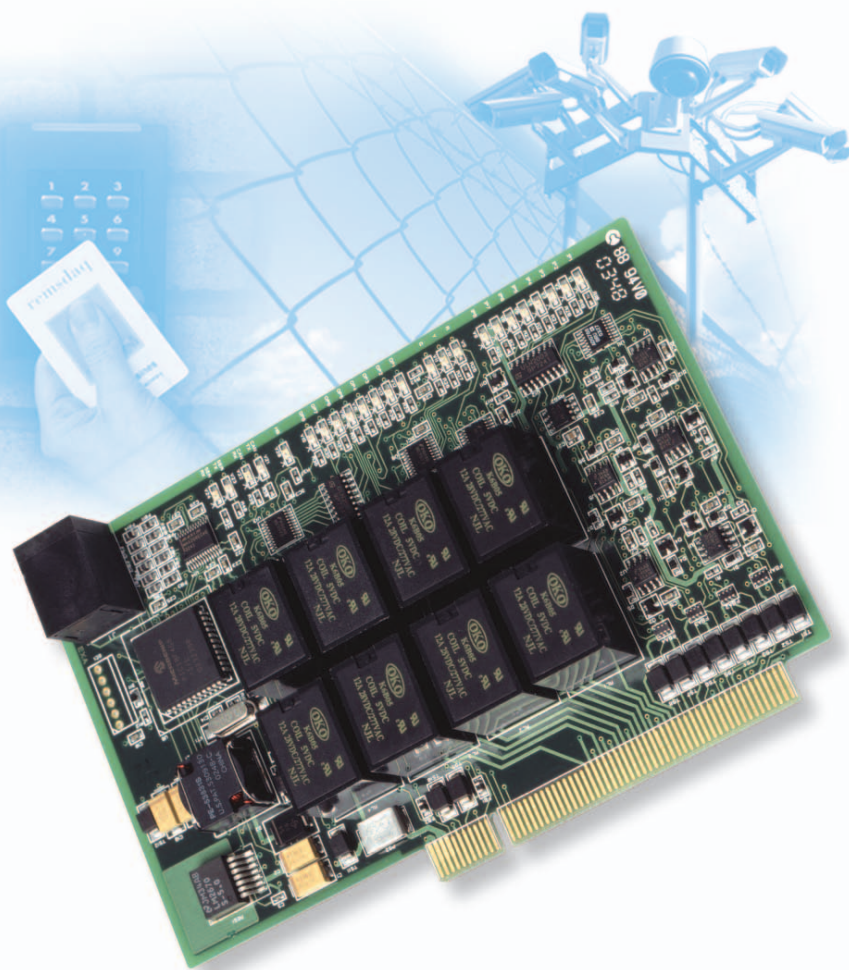


StarNET

IOM (Input/Output Module)

evolution of proven technology



FEATURES

- Compact alarm interface unit
- Unique 3 into 1 alarm configuration
- Can co-exist with access control
- Up to 24 supervised inputs
- High speed network

The StarNET IOM (input/output module) is a compact alarm interface unit designed to integrate into the Remsdaq StarWatch integrated security management system.

Remsdaq Part Number 12271

StarNET IOM utilises a unique 3 into 1 sensor arrangement that dramatically lowers the cost of integrating alarms into the StarWatch system. StarNET IOM is housed in the StarNET Backplane and is designed to communicate with a StarNET ACP.

Each StarNET IOM is equipped with:-

- 8 physical or 24 "logical" supervised alarm inputs
- 6 changeover relays
- 1 normally open relay
- 1 normally closed relay

Up to 4 StarNET IO Modules can assemble onto a single StarNET four-way Backplane and a total of 15 units can be connected to a single StarNET ACP to provide a maximum of 360 local alarm inputs and 120 local relay outputs per StarNET ACP. The StarNET is also able to support distributed IO using the StarNET LEDA.

The StarNET IOM communicates with its StarNET ACP host using the CAN protocol at speeds of 125 Kbits per second. It is possible to extend the CAN network to a maximum distance of 400m at this data rate.

When powered up out of the box, the StarNET IOM will automatically receive a default configuration across the CAN bus. If changes to this default configuration are required, a web-browser based tool known as StarWEB can be used to connect to the StarNET ACP host and download the new configuration.

The StarNET IOM has the ability to connect three alarm inputs to each physical input using special colour coded termination devices. This allows a significant reduction in field wiring, lowers the cost of alarm integration and can still provide individual annunciation of each sensor and its associated tamper alarm.

Processor

PIC 18F458 Microcontroller running at 40MHz
32 KBytes of on board Flash memory
1.5 KBytes of on board RAM
256 Bytes of EEPROM
Conforms to the CAN 2.0B spec

Communications Protocol

CAN Bus

Dimensions

147.3mm x 98.4mm

Power Supply

+12 volts (nominal) D.C. supply
Input D.C. voltage of +10 volts to +18 volts
On board regulator generates a +5v supply rail

Alarm Inputs

8 physical supervised alarm input connections
24 logical supervised alarm input connections
Special colour coded termination devices

On-Board Relays

8 relays 6 changeover (NO/NC), 1 normally open, 1 normally closed
Each relay rated at 2A at a DC voltage of 30V

LED Indications

- LED1 - Physical Input 1
- LED2 - Physical Input 2
- LED3 - Physical Input 3
- LED4 - Physical Input 4
- LED5 - Physical Input 5
- LED6 - Physical Input 6
- LED7 - Physical Input 7
- LED8 - Physical Input 8
- LED9 - logical input status 1,4,7,10.....22
- LED10 - logical input status 2,5,8,11.....23
- LED11 - logical input status 3,6,9,12.....24
- LED12 - OP1
- LED13 - OP2
- LED14 - OP3
- LED15 - OP4
- LED16 - OP5
- LED17 - OP6
- LED18 - OP7
- LED19 - OP8
- LED20 - Heartbeat
- LED21 - CAN bus TX
- LED22 - CAN bus RX
- LED23 - Future use
- LED24 - Future use

Environmental Specification

Operating temperature -40°C to +70°C.
Storage temperature -40°C to +70°C.

The 12271 operates with a relative Humidity up to 95% (non-condensing) at a temperature of +40°C.

EMC Requirements

BS EN 55022 Radiated and Conducted Emissions
BS EN 50082-1 Generic Immunity



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