entronet
ACCESS CONTROL THE WAY FORWARD

Powerful IP BACnet access control and alarm management architecture fully integrated with the entrowatch, entrostar and entropad range of products. The modular design offers an extremely flexible solution for cost effective implementation and expansion which is also suited for larger system requirements.
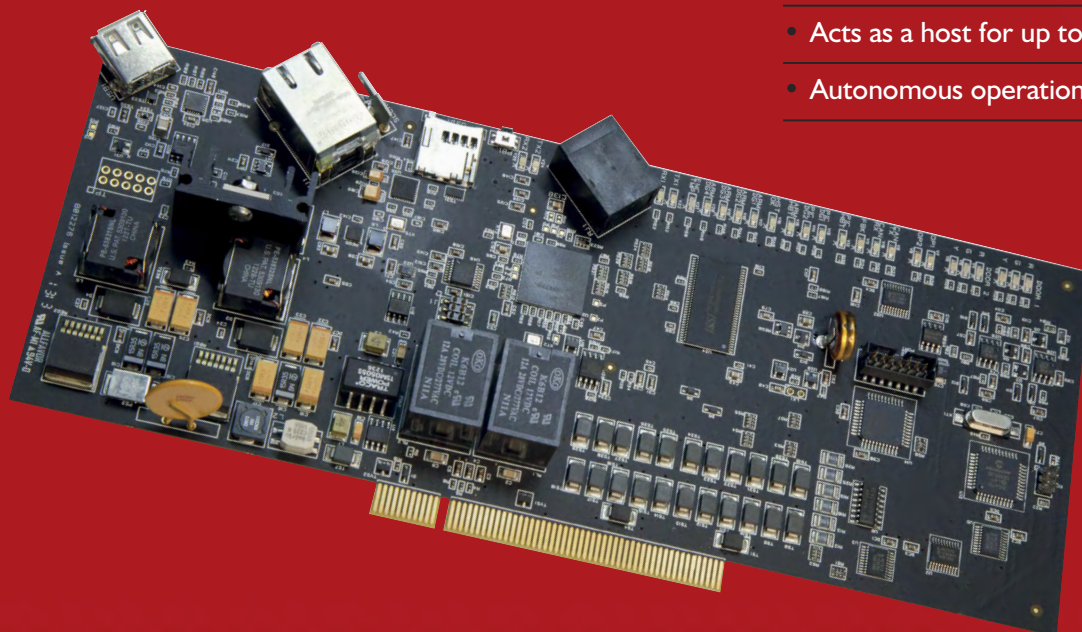
KEY FEATURES

- Compact, expandable & flexible system design
- Provides access control and alarm management
- Up to 4 plug-in modules per backplane
- Full distributed intelligence
- Up to 8 door/16 reader control in a single enclosure
- Economical cost per door configuration
- Auto recognition of multiple Wiegand card formats
- Custom card format support
- 256,000 ID tokens and 128,000 offline event buffer
- Supports secure (encrypted) communications
- Modules can be easily replaced without disturbing field cabling
- Enclosure with tamper and 7A PSU option available

A NEW APPROACH TO ACCESS CONTROL

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ACCESS CONTROL THE WAY FORWARD

entronet controller

The entronet controller is a BACnet access control processor supporting 2 doors and expandable up to 32 doors via optional plug in modules. The entronet controller is housed in a 4-way backplane and is designed to integrate with the entrowatch, entrostar and entropad range of products.

The entronet controller is an intelligent field device which incorporates an independent two door controller capable of making access control decisions without reference to entrowatch.

It is also able to store alarm and access events in the case of interrupted communications to the entrowatch server thereby ensuring system integrity.

Communication to entrowatch can optionally be secured through encryption.

When powered up out of the box, the entronet controller will automatically assume a default configuration and function as a basic access control unit. Changes to the default configuration can be made via entrowatch.

The entronet controller can act as a host for up to 15 slave devices which can be any combination of TDEM and IOM devices housed in up to 4 backplanes connected together (provided the total end to end distance, is less than 400 metres).

On-board 2 door controller module
2 readers (or 1 reader & 1 RTE) per door
3 logical inputs per door
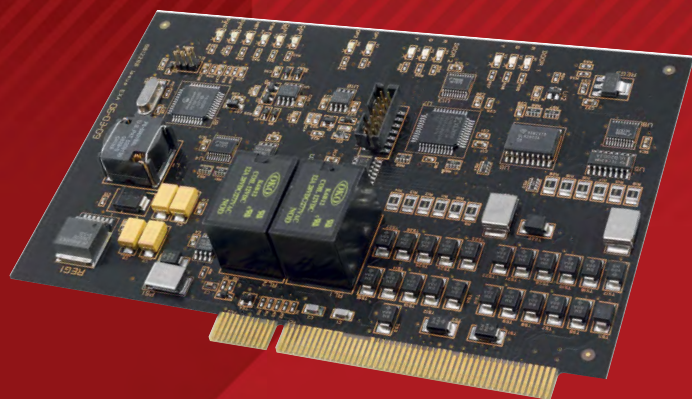1 SPST (N/O) relay rated at 2A/30V DC per door
1 Auxiliary input

Power Supply Requirements
Input Supply +10 to +18 V DC
Power consumption: Typically 330mA @ 12V DC (excluding locks and readers)

A NEW APPROACH TO ACCESS CONTROL

TDEM (Two Door Expansion Module)

The entronet TDEM is a two-door access control module which can be plugged into an entronet backplane.

Up to 4 entronet TDEMs can be accommodated by each entronet backplane and up to 15 modules can be grouped together to provide a maximum of 32 doors per entronet controller.

KEY FEATURES

- 2 door/4 reader expansion module

- Off-line fall back operation

2 door controller module
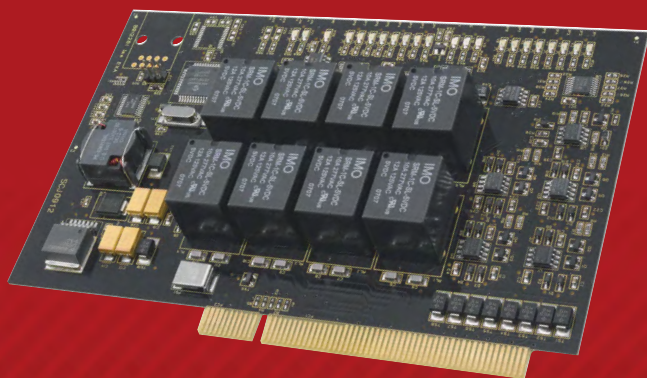2 readers (and 1 reader & 1 RTE) per door
3 logical inputs per door
1 SPST (N/O) relay rated at 2A/30V DC per door

Power Supply Requirements
Input Supply +10 to +18 V DC
Power consumption: Typically 170mA @ 12V DC
(excluding locks and readers)

IOM (Input/Output Module)

The IOM is a compact general purpose I/O module which can be integrated with external devices such as fire alarms, heating & lighting panels etc.

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

Each IOM is equipped with 24 "logical" supervised alarm inputs and 8 relays.

Up to 4 entronet IOMs can be accommodated by each entronet backplane and up to 15 modules can be grouped together to provide a maximum of 360 alarm inputs and 120 relay outputs per entronet controller.

KEY FEATURES

- Compact alarm interface unit

- Unique 3 into 1 input configuration

- 24 "logical" supervised inputs & 8 relay outputs

- Can co-exist with access control

Inputs
8 supervised inputs (24 "logical" inputs)

Outputs
8 relays, each rated at 2A/30V DC
6 SPDT changeover
1 SPST (normally open)
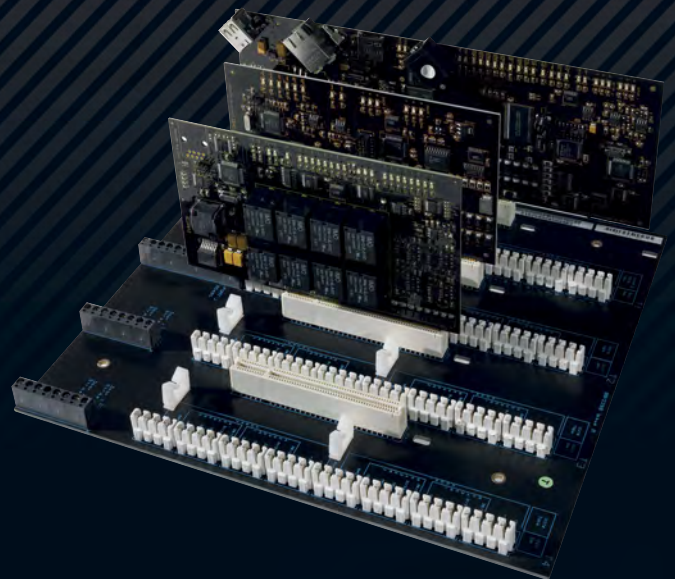1 SPST (normally closed)

Power Supply Requirements
Input Supply +10 to +18 V DC
Power consumption: Typically 140mA @ 12V DC.
(Max 400mA all relays energised)

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4-way backplane

Central to the suite of entronet products is a 4 way backplane which accommodates entronet modules.

The entronet backplane supports one entronet controller, together with any combination of TDEMs and IOMs and up to 4 backplanes can be connected together provided the total end to end distance, is less than 400 metres.

ITU (Input Termination Unit)

Up to three Input Termination Units (one of each colour code) can be fitted to every supervised input enabling 3 separate alarm inputs for each physical input.

Specifications

Environmental	Storage/Operating: -40˚C to +70˚C
	Humidity: Up to 95% (non-condensing at 45˚C)
Certifications	EMC BS EN 55022 Radiated and Conducted Emissions
	BS-EN 50082-1 Generic Immunity
Dimensions	400mm x 400mm x 200 mm (entronet enclosure)
	257.8mm x 238.8mm (backplane pcb only
	238.2mm x 98.4mm (entronet controller)
	147.3mm x 98.4mm (TDEM & IOM)

Ordering Information

Part Number	Description
EW0002P	Backplane (pcb only)
EW0100P	Enclosure complete with backplane, 7A Power Supply and tamper switch.
EW1100P	entronet controller
EW2100P	entronet TDEM
EW3000P	entronet IOM
EW5001P (Red)	entronet input termination devices (30 per pack) Alarm Input 1
EW6001P (Yellow)	entronet input termination devices (30 per pack) Alarm Input 2
EW7001P (Green)	entronet input termination devices (30 per pack) Alarm Input 3

FOR MORE INFORMATION ABOUT ENTRONET

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