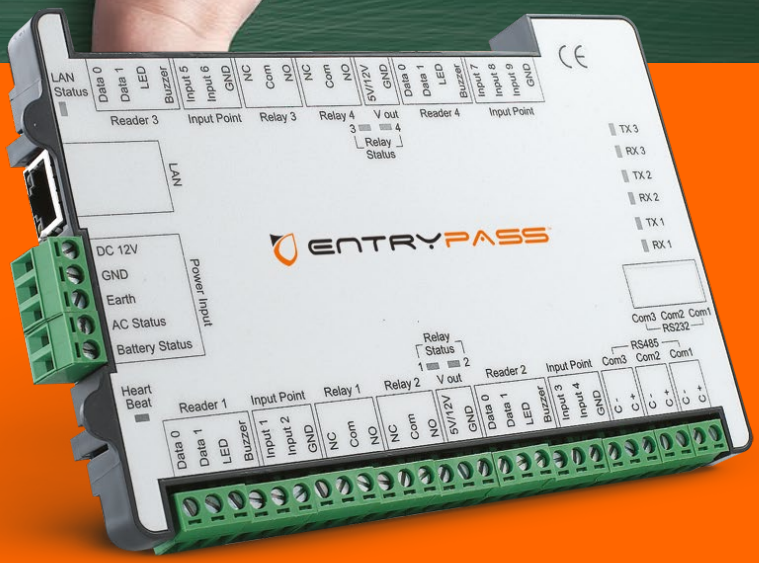
N5150

Active Network Control Panel



EntryPass Active Networks are designed to enhance highly customized and rapid 'real-time' changes to the underlying network operation. Brilliantly engineered with all the power you need to enable code-sending, minus unnecessary buffer time with its distributed architecture capable of processing access demand at the edge level without leveraging at the server end.

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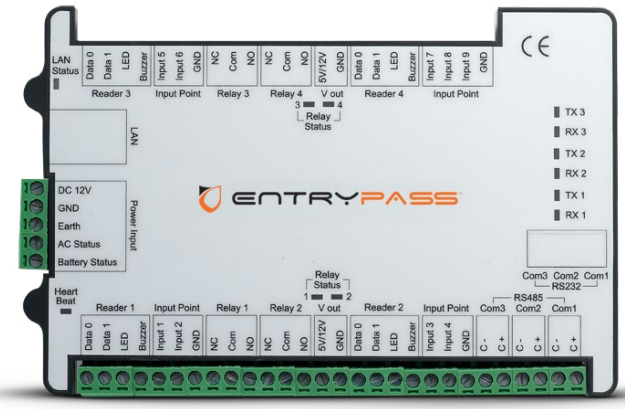

HIGH PERFORMANCE

Based on the latest HCB (Hybrid Compact Board), N5100 is a high reliability, high efficiency and highly integrated intelligent multi-application control panel targeted for physical access control industry. It features a 32bits Freescale ColdFire microcontroller running at 60MHz, this control panel can fulfill most demanding requirement in physical access control environment.

ACTIVE TRANSMIT

Rather than keeping the event data in the memory awaiting for host-PC to poll, controller will actively transmits the current event data to the host server as it happens, meaning events get delivered and can be act upon faster.

AES (ADVANCE ENCRYPTION STANDARD)

By enabling AES Encryption, the controller will only communicate with platform1 where the AES key in the P1 database is match with the controller. This can avoid hacker to tap the controller then directly communicate and control the controller, for example send a pulse door command to unlock the door.

BUILT IN WEB SERVER

Built-in web server where network configuration such as IP address, subnet mask, server IP can be easily done upon login. No more factory programming needed as the firmware can be upgraded via the on-board web server.

DOOR INTERLOCKING

2 In doors interlocking within the control panel, no external wiring is needed. Cross-board interlocking is achievable by checking the interlocking signal coming from second control panel before granting the accessibility to the local control panel.

Feature Highlight

- Support Single Door / 2 Doors
- Support Car Park Mode
- Support Dynamic Reader Location
- Compatible with Various Reader Technologies
- ActiveTransmit & ActiveDownload
- Peer To Peer Global Anti-Passback
- Configurable Digital / Supervised inputs (4)
- Quick Terminal Plug-in Connectors
- Firmware Upgrade via Server
- Reader Output Control
- Onboard & Cross-Board Door Interlocking
- Dynamic Operation Profile
- Support 5,000 Users and 10,000 Events Memory

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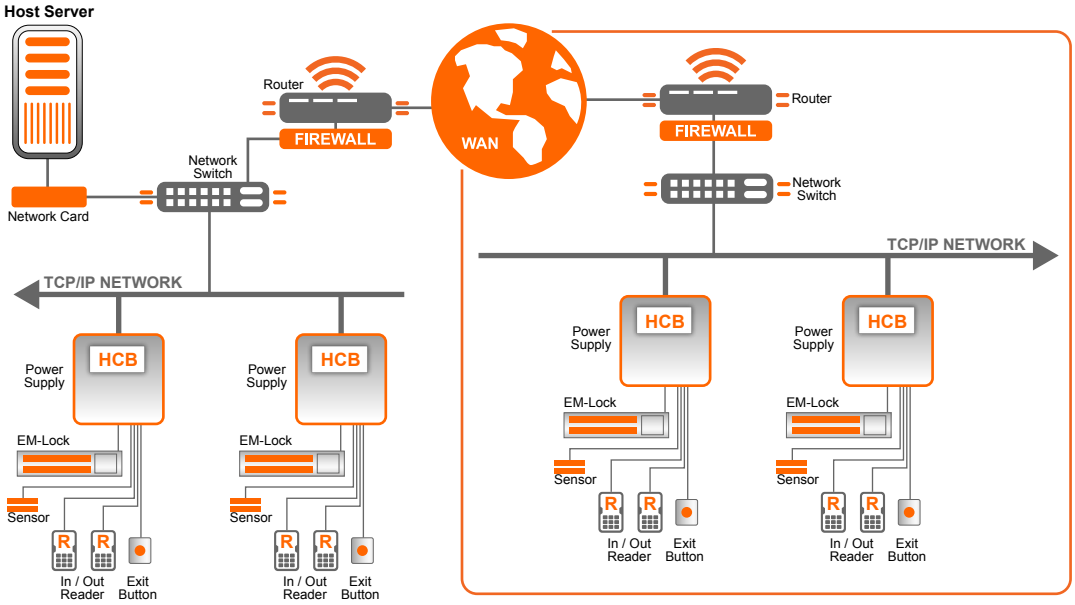
Basic System Diagram



Technical Specification

Hardware	Description
Dimension	158mm (w) x 90mm (H)
MCU	32bits @ 60MHz
Memory	256K Flash Memory 32K SRAM (Buffer) 64Mbits Non-Volatile SPI Flash Memory (Storage)
Operating Temperature	0 °C to 40 °C
Card Holder	5,000
Event Transaction	10,000Max.
Access Level	255 Sets
Digital/Supervise Inputs	Max 4, User configurable (Door Sensor/Request-To-Exit/Fire Input/General Purpose)
Digital Output	Max. 2 Dry contact Relay
Network Communication Port	RJ-45 Self-Negotiate 10/100mbps
Power Protection	Resettable Fuse - 2.5A
Surge Protection	TVS - Up to 15KVA
Onboard LED Control	Power / Communication / LAN / Event / Error
AC Fail Monitoring	Yes
Battery Monitoring	Yes (Firmware threshold control to shutdown control panel)
External Short Circuit Protection	At readers
Backup Battery	Yes, Apply to RTC only

Ordering Information

EP.N5100.PCB	Entrypass 2 Readers Advanced Network Door Control Panel only
EP.N5100.PSU	Entrypass 2 Readers Advanced Network Door Control Panel with Power Supply Unit

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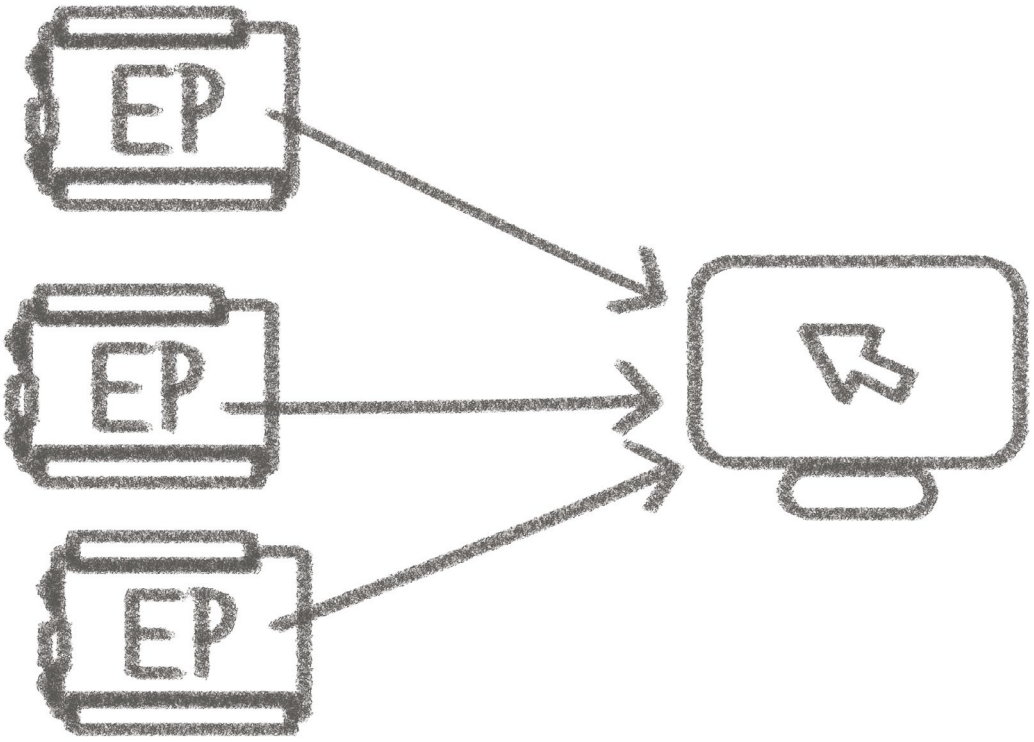

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