Access Controller for Ethernet

Access Controller for Ethernet ACX Series
The ACX Series controllers are the industry's most powerful all-in-one access controllers designed for both critical government and public sector security applications. These Continuum controllers are just as attractive for one to eight reader installations.

Onboard I/O for Access Control
Schneider Electric understands that not all security installations are the same. The ACX Series has been designed with flexibility in mind. There are two base hardware models: the 5720 and the 5740. The 5740 has double the universal inputs, reader inputs, and outputs onboard as the 5720. These models come standard with the following I/O configurations:

Continued on next page.

Ethernet LAN Interface
10/100 Ethernet; Ethernet cable with RJ-45 connector.

Serial Comm. Interface
One RS-485 programmable port, software configurable for RoamIO2.

CONNECTIONS
Power
3-position connector on left side of module for direct connection to a DC external power source.

Ethernet
RJ-45 connector for 10/100 Ethernet

Cabinet Tamper Input
2-pin connector for cabinet tamper switches located on the cabinet door and wall.

Universal Inputs
6 (Model 5720) or 12 (Model 5740) universal inputs that can be configured as supervised or general purpose UI.

Alarm Inputs
6 (Model 5720) or 12 (Model 5740) supervised inputs. Single or double resistor supervision, series or parallel.

Card Reader/Keypad Inputs
4 (Model 5720) or 8 (Model 5740) inputs. Each input can be connected to a card reader, dedicated keypad, or reader/keypad combination.

Door Outputs
2 (Model 5720) or 4 (Model 5740) Form C relays with a manual override switch

Specifications continued on next page.
Specifications continued from first page.

**CARD READER/KEYPAD**

- **Card Reader Type**
  - Wiegand, ABA, or CardKey (jumper selectable)

- **Max Number of Bits/Card**
  - Up to 260 bits/card

- **Card Reader Power**
  - +5 VDC @ 120 mA or +12 VDC @ 180 mA (jumper selectable)

- **Max Wiring Distance (Reader to ACX)**
  - 500 ft. (152.4 m) using 18 AWG
  - 200 ft. (60.96 m) using 22 AWG

**DOORS OUTPUTS**

- **Output Rating**
  - 24 VAC/30 VDC @ 3 A

- **Card Reader LED Output**
  - (2) each, open collector; up to 100 mA

- **Output Protection**
  - 5000 V isolation, 270 V MOV on each output

- **Overrides**
  - 3-position manual override switch on each output for manual control of relay. LED override status indicator.

**USER LEDS**

- **Status Indicator LEDs**
  - CPU: CPU Active
  - RS-485: Transmit Data
  - TX: Receive Data
  - RX: Expansion module 24 VDC power.

- **ETHERNET**
  - ACT/LINK: Indicates status of Ethernet activity and link.
  - 10/100 Mbps: Not lit for 10 Mbps. Orange for 100 Mbps

**PUSH BUTTON SWITCHES**

- **Clear Memory**
- **RESET/Clear Memory**

- **Reset IP Address**
  - (On PC board) Resets network address settings in flash memory and restores all non-volatile settings to factory defaults.

**DIP SWITCHES**

- Universal inputs, 10 K ohm pull-up disable/enable

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**GENERAL**

- **Microprocessor**
  - MCF5275 running at 150 MHz

- **Memory**
  - DDR SDRAM: 128 MB
  - Flash: 32 MB

**AGENCY LISTINGS**

- FCC Class A, ICES-003, CE, C-Tick, WEEE, UL/CUL 916
- Pending: UL 294, UL 1076

**FEATuRES**

- Native Ethernet IP Access Controller
- Access control for 1 to 8 readers
- Powerful CPU with 128 MB of DDR SDRAM and 32 MB Flash
- Dedicated processor for reader inputs
- Battery backed storage for up to 480,000 personnel records
- Secure 10/100 Ethernet communications via IPsec/IKE Encryption with hardware acceleration for Authentication and Encryption
- Easy configuration using embedded configuration web pages
- Support for Area Lockdown and Condition “Threat” Level based access rights
- SPD-12/FIPS 201 Ready
- XP Module Support
- Full Credential Format Support for 260-bits
- SNMP Network Management and Alarm Support

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The ACX is designed to support both entry and egress readers while supplying +5 or +12 VDC to each reader.

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<table>
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<tr>
<th>ACX Series</th>
<th>Model 5720</th>
<th>Model 5740</th>
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<td>Universal Inputs</td>
<td>6</td>
<td>12</td>
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<tr>
<td>Reader Inputs</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Tamper Input</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Digital Lock Outputs</td>
<td>2</td>
<td>4</td>
</tr>
</tbody>
</table>
**DIMENSIONS**

- 209.6 mm (8.25"
- 194.615 mm (7.662"
- 226.365 mm (8.912"
- 241.3 mm (9.5"
- 57.2 mm (2.25"

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Schneider Electric

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MODELS

<table>
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<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>ACX-2-0000000</td>
<td>ACX 5720, 4 Readers, 6 in, 2 DO, 10/100bT</td>
</tr>
<tr>
<td>ACX-4-0000000</td>
<td>ACX 5740, 8 Readers, 12 in, 4 DO, 10/100bT</td>
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OPTIONS

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<tr>
<th>Option</th>
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<td>H</td>
<td>High Encryption</td>
</tr>
<tr>
<td>A</td>
<td>Advanced Alarming (includes SNMP and Redundant Alarming)</td>
</tr>
<tr>
<td>C</td>
<td>Critical Security (includes Condition “Threat” Level feature)</td>
</tr>
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ARCHITECTURE

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