

# Access Controller for Ethernet



## SPECIFICATIONS

### ELECTRICAL

#### Power

24 VAC, 50/60 Hz 12-28 VDC auto-sensing

#### Power Consumption

90 VA (AC)

50 W (DC)

#### Real Time Clock

Battery-backed by an internal battery

### MECHANICAL

#### Operation Environment

32 to 122 °F (0 to 50 °C), 10 to 90% RH (non-condensing)

#### Dimensions

8.25" W x 9.5" L x 2.25" H  
(209.6 W x 241.3 L x 57.2 H mm)

#### Weight

1.73 lbs. (0.78 kg.)

#### Enclosure Type

UL open class, flammability rating of UL94-5V, IP 10

#### Mounting

Wall mount using attached fasteners. (Continuum NEMA 1-style enclosure available.)

### BATTERY

#### Internal Battery

NiMH, 3.6 VDC, 800 mAh

#### Battery Backup

Minimum 7 days DDR SDRAM and real-time clock

### COMMUNICATIONS

#### Comm. Error Checking

International Standard CRC 16

### 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:

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### 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

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**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  
(FORM C RELAY)**

**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 LEADS**

**Status Indicator LEDs**

CPU ..... CPU Active  
RS-485  
TX: ..... Transmit Data  
RX: ..... Receive Data  
ETHERNET  
ACT/LINK: . . . Indicates status of Ethernet activity and link.  
10/100 Mbps: . . . . . Not lit for 10 Mbps  
. . . . . Orange for 100 Mbps  
EXP PORT POWER  
. . . . . Expansion module 24 VDC power.

**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

**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

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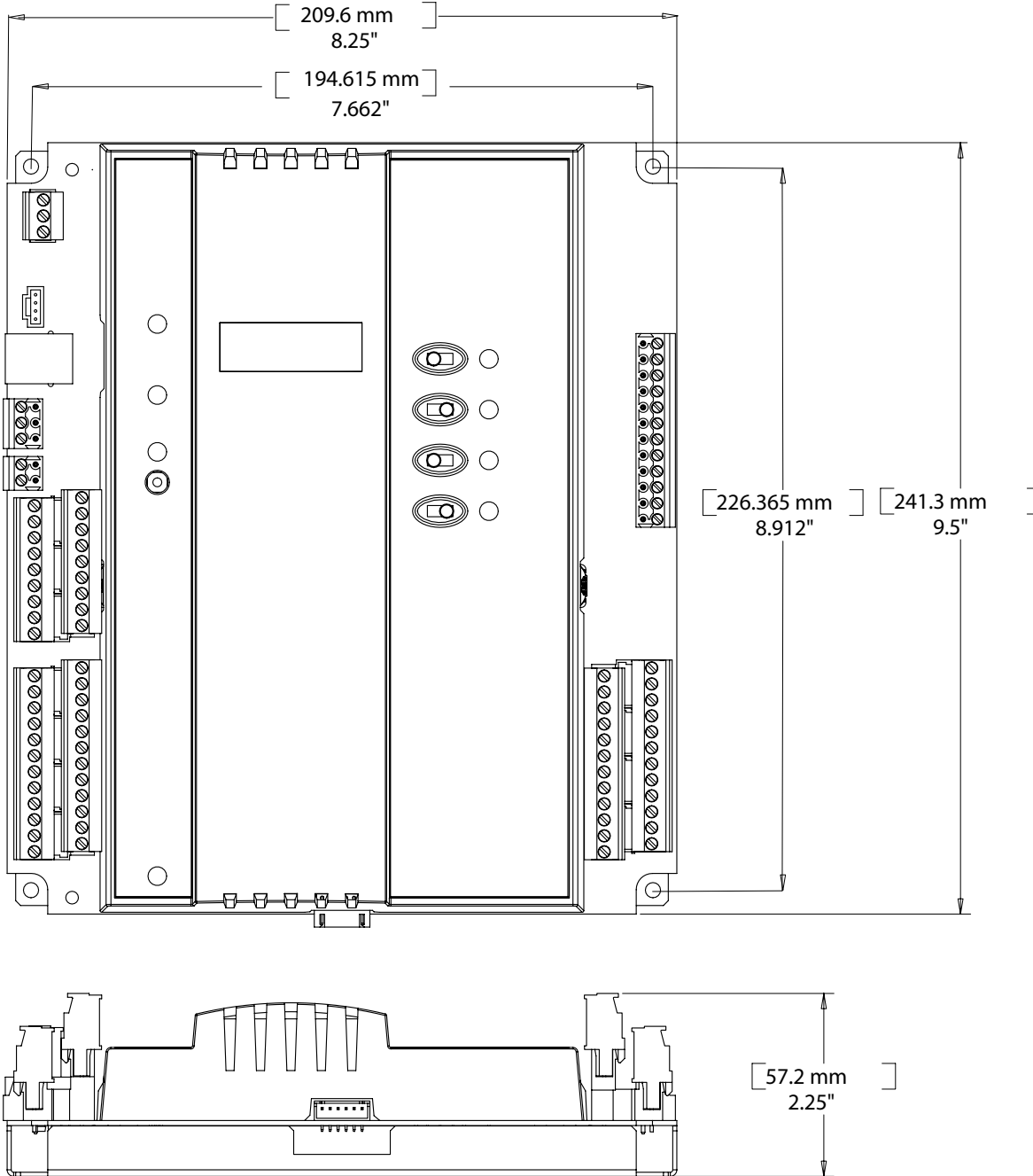
ACX Series	Model 5720	Model 5740
Universal Inputs	6	12
Reader Inputs	4	8
Tamper Input	1	1
Digital Lock Outputs	2	4

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

**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
- Flash for easy online software updates
- Compatible with CyberStation 1.8 and higher software
- 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 Rormat Support for 260-bits
- SNMP Network Management and Alarm Support

### DIMENSIONS



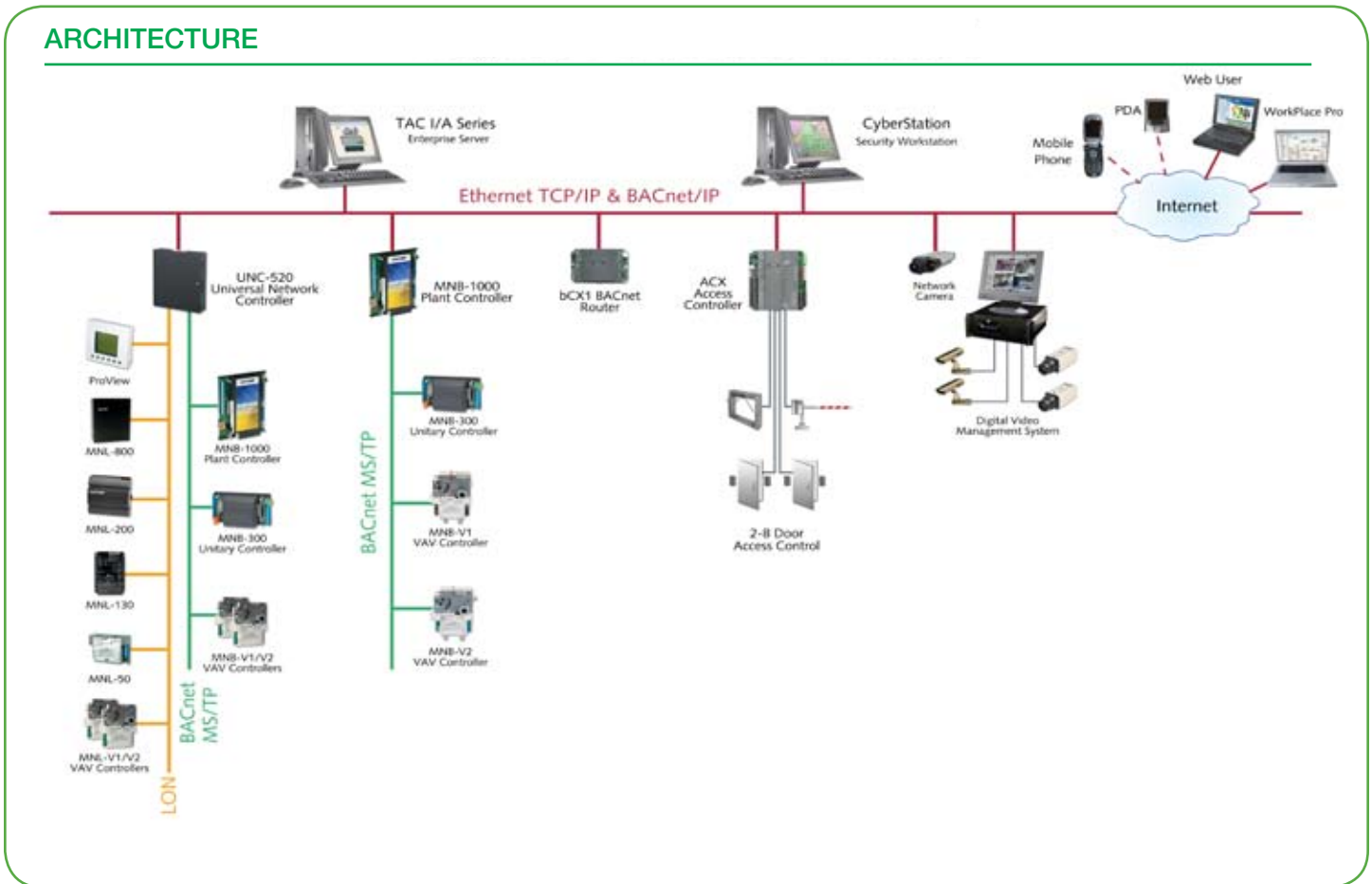
## MODELS

Part Number	Description
ACX-2-0000000	ACX 5720, 4 Readers, 6 in, 2 DO. 10/100bT
ACX-4-0000000	ACX 5740, 8 Readers, 12 in, 4 DO. 10/100bT

## OPTIONS

Option	Description
H	High Encryption
A	Advanced Alarming (includes SNMP and Redundant Alarming)
C	Critical Security (includes Condition "Threat" Level feature)

## ARCHITECTURE



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