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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.

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

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.

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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 (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 LEDS

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

Discription continued from first page.

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

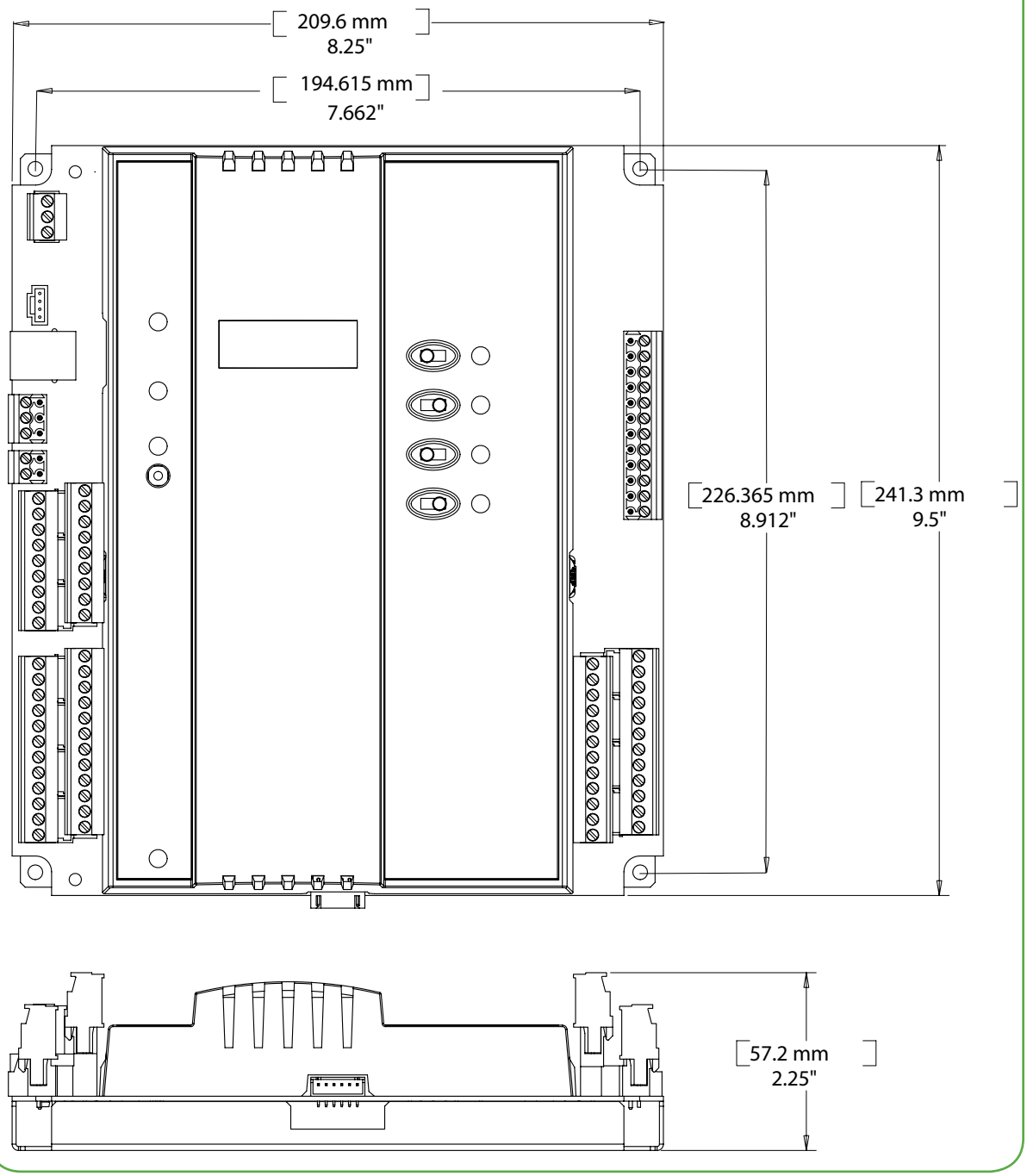
The ACX is designed to support both entry and egress readers while supplying +5 or +12 VDC to each reader.

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

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DIMENSIONS



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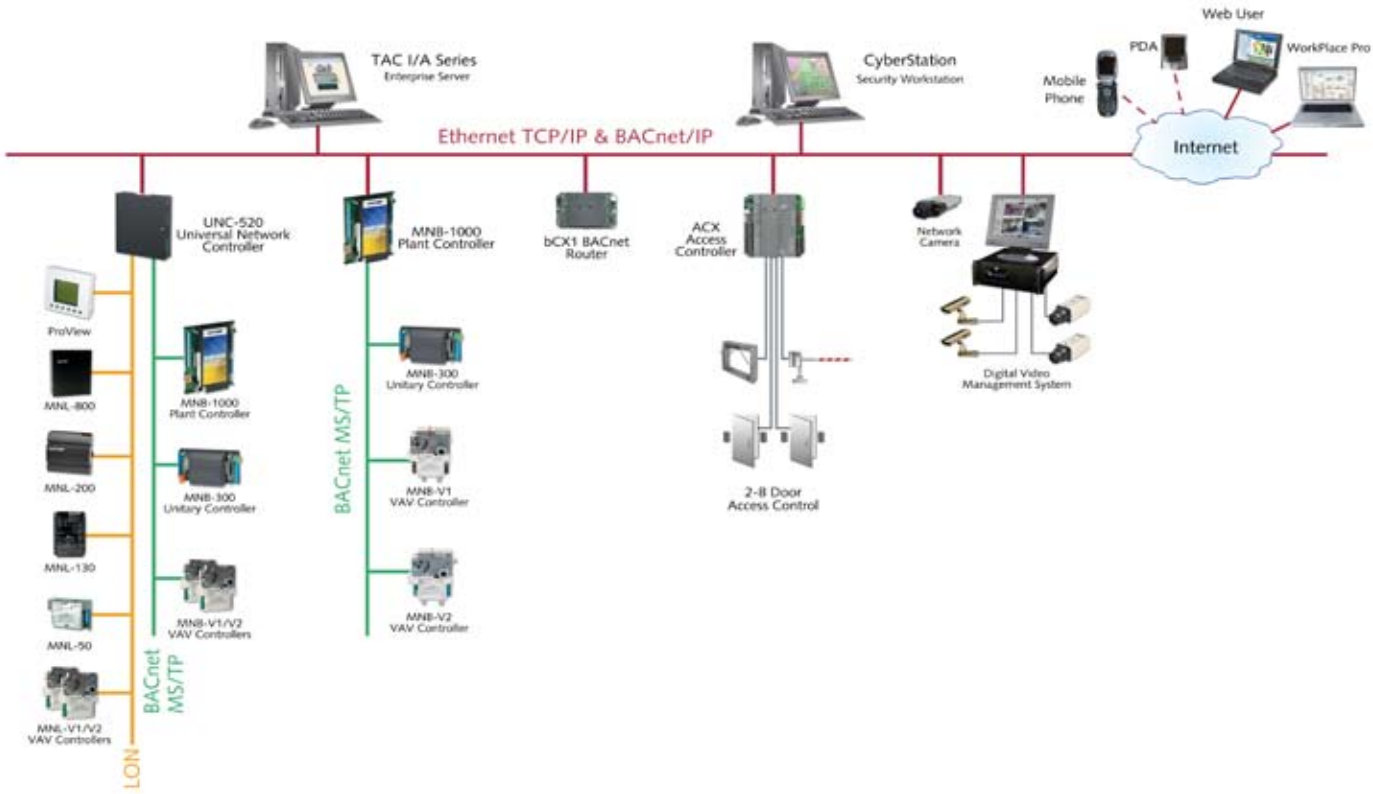
MODELS

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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