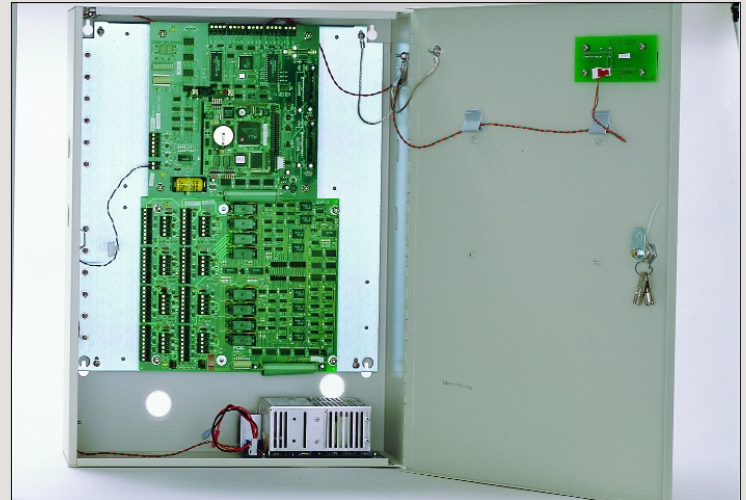


# ULTIMATE SERIES CONTROLLERS

POWERFUL, DYNAMIC AND  
OPEN ARCHITECTURE

# PCSC



PCSC retains its leading role in intelligent controllers products by offering the Ultimate™ Series, a 100% distributed architecture with open architecture to support TCP/IP protocols and direct connections to LAN/WAN networks. It offers superb management of access control, alarm monitoring and output control subsystems.

The Ultimate controller can be configured with up to 18 different add-on or upgrade models to meet your requirements. Sites with existing PCSC systems will benefit from the easy "plug-and-play" architecture, increasing present capabilities and features.

## COMMUNICATIONS

The Ultimate Series uses onboard Ethernet connectivity, providing download speeds of over 10 times faster than controllers, using serial communication speeds of 9,600 baud. Its onboard industry-standard TCP/IP protocol provides an alternative data interchange platform with a site's existing LAN/WAN communication network.

## ADVANCED SOFTWARE FEATURES

The Ultimate Series can accommodate special operations features, such as ADA requirements for individual cardholders. The Ultimate goes far beyond the 'automatic timed door-opening' features found in other systems. It can restrict such timed door-opening actions until an individual cardholder or specific card group has accessed the system. Other features, such as vehicle counting, escorting, two person minimum occupancy, two-stage alarm handling - and much more - are all standard features of the Ultimate series. It also provides "Emergency Data Recovery". When recent system data backups are unavailable, users can upload data from Ultimate controllers to rebuild the system database. This system maintains cardholder, door, input and output names at the controller to provide users with intelligent provisions for every possible complication.

## HIGH SECURITY ALARM MONITORING

The Ultimate Series eliminates guesswork in high security alarm monitoring by offering the industry's first Digital Signal Processing (DSP) for alarm monitoring. Using DSP ensures the most accurate and foolproof 5-state alarm monitoring. Its advanced capabilities automatically analyze and monitor a site's installation's cable distance, cable size and end-of-line resistors. This 5-state DSP logic continually monitors for normal, alarm, short, open and "calibration fault" conditions. The result? No more false alarms. The Ultimate also allows installers to software-configure each point as either supervised or dry contact.

## ADVANCED HARDWARE FUNCTIONS

The Ultimate's advanced design provides real-time clock energy so time and dates are accurate and can continue accurate operations after power outages. Its unique ability to adapt and dynamically configure to users requirements makes the Ultimate, the most powerful controller in the industry.

## KEY FEATURES

- On-board Ethernet communication
- LAN/WAN connectivity
- Reader configurations of 4, 8 & 12
- Intelligent 5-State Supervised Inputs
- IDE controller
- Compatible with LiNC-NET® for Windows® software; IQ™, SIM™ and Micro® ELV controllers
- Emergency data recovery
- 20,000 cardholders (standard)
- 12,000 event transaction buffer (standard)
- Optional output, alarm and card database expansion modules
- UL 294, 1076, Austel, CEO mark and FCC compliant

# SPECIFICATIONS & DRAWINGS

The Ultimate™ Series is the highest quality security controller on the market today. It has the capacities to satisfy any exacting security system design criteria. With its standard cardholder base of 20,000 and expansion capabilities to meet any requirement, the Ultimate Series has no limits. Its standard TCP/IP communication connection provides flexible and secure architecture for any design. The Ultimate incorporates the high security 5-state alarm handling, providing the user with the best monitoring product in the industry.

### OPTIONAL UPGRADES

- Cardholder Capacity to 60,000
- Universal Power Supply with Charger
- Enclosure
- Rear Panel

### MODEL

- X
- P6
- L
- R

### CABLING REQUIREMENTS

- Host-to-Controller: 4 conductors  
(Maximum Total Distance 4,000 ft. (1,219 meters))
- Controller-to-Controller: 4 Conductors  
(Maximum Total Distance 4,000 ft. (1,219 meters))
- Controller-to-Door:  
Reader: 6 Conductors (Maximum 500 feet (152 m) or 2,000 ft. (609 m))  
Door Strike: 2 Conductors (Maximum 2,000 ft. (609 m))  
Door Status: 2 Conductors (Maximum 2,000 ft. (609 m))  
REX: 4 Conductors (Maximum 2,000 ft. (609 m))  
Controller-to-Input Point: 2 Conductors (Maximum 2,000 ft. (609 m))

### SPECIFICATIONS

- Relay Rating: Form C 2.5 Amps @24 VDC
- Environmental: 32° F - 115° F (0° C - 46° C)
- Humidity: 0 - 98% Non-Condensing

### ENCLOSURE DIMENSIONS

- 16 AWG CRS enclosure with Tamper, Lock and Key
- Large: 21.6"h x 16.1"w x 5.7"d (55.4 cm x 40.9 cm x 14.5 cm)

Composite Cable (CBLCOMP) available, which includes all necessary cables for Controller-to-Door.

Note: All cable except Door Lock is 22 AWG, Twisted, Shielded and with an Overall Shield. Door Lock is 18 AWG, Stranded with Shield.

	TCP/IP COMMUNICATION	READER PORTS	DOOR LOCK RELAY	DOOR STATUS SUPERVISED INPUT	REQUEST TO EXIT SUPERVISED	SUPERVISED READERS	ADDITIONAL SUPERVISED INPUTS	VOLTAGE OUTPUTS	ENCLOSURE TAMPER	UPGRADE CAPABLE	MAX POWER AMPS@12VDC
ULT400	YES	4	4	4	4	4	5	4	1	YES	2.2
ULT800	YES	8	8	8	8	8	5	8	1	YES	3.2
ULT1200	YES	12	12	12	12	12	5	12	1	YES	4.4

UPGRADE MODULES				
	5-STATE SUPERVISED INPUTS	DRY CONTACT INPUTS	FORM C RELAY OUTPUTS	MAX POWER AMPS @12VDC
ALM	N/A	16	N/A	0.20
OUT	N/A	16	16	1.80
SAM	8	N/A	N/A	0.15
SAM2	16	N/A	N/A	0.30

