Millenium expert
Real-Time Networked Access Control Systems

- Office Buildings
- K-12 Schools
- Small/Medium Size Businesses
- Condominiums

Application

Millenium expert is a feature rich access control system designed to fit a wide range of applications and sites. Its architecture is suited for organizations that wish to maintain a solid access control network using different communication modes.

In addition, Millenium expert allows operators to manage their access control system from a standard PC workstation anywhere on their communication network.

Features

- **Reliable network with distributed intelligence:** Doors function normally even if communication is off-line
- Modular expansion; one door or one site at a time
- Economical upgrade from other access control systems
- Adapts to facilities of any size
- Interfaces to most types of readers and cards in the industry

- Interconnects with most communication networks (TCP/IP, twisted pair, leased line, fiber optic, dial up and wireless technologies)
- ODBC compliant database with easy data export and import
- Increased security between panels with a proprietary communication protocol

System Capacities

- **Number of Sites:** 1,000
- **Access Points per System:** 100,000
- **Readers per Access Point:** 1
- **Monitored Alarmed Points:** 700,000
- **Elevator Control:** 64,000 floors, 10,000 elevator cars
- **Workstations Supported:** 32

- **Relays Supported:** 200,000 (on/off) plus 80,000 optional
- **Cardholders:** Unlimited
- **Time Zones:** 200
- **Alarms per Access Point:** 7 including door contact

MILLENNIUM
G R O U P

PC Minimum Requirements

Hardware
- Pentium III or equivalent
- HD: 10GB/5GB (Server/Workstation)
- Serial Port DB9
- RAM: 128MB/64MB (Server/Workstation)
- CD/R-W
- Screen Resolution: 800 x 600

Software
- Server: Microsoft Windows NT/2000/XP (latest Service Packs)
- Workstations: Microsoft Windows 98SE or above (latest Service Packs)
- Network Protocol: TCP/IP

Optional Software Modules
- Millenium Badging

System Management

- **User Management:**
  - Complete user profile
  - Customizable fields
  - Complete activity reports
  - Card auto-expiry
  - Lost/stolen card tracking

- **System Operators:**
  - Master Levels: 2
  - Custom Levels: Unlimited
  - All software features can be selectively assigned to operators

- **Access Point Management:**
  - Complete user access control with flexible time schedules
  - Full current status (alarm and relay conditions)
  - Remote unlock
  - Temporary relay override (Lockdown or Release)

- **Generate Reports:**
  - System Audits
  - Alarm Events
  - Door Status
  - Activity
  - History
  - Site Status

System Features

- **Scheduler:**
  - Book events
  - Schedule door locks/unlocks, even days or weeks in advance
  - Event Recurrence Manager

- **Alarm Monitoring:**
  - Graphical Screens: 4 maps per alarm point
  - Alarm Sound: Attach .wav files to alarms
  - Acknowledgements, instructions and descriptions

- **Facility (Guard) Tours:**
  - Up to 96 tours; global or individual

- **Access Point Relays:**
  - 2 per access point
  - 8 modes available including alarm response modes

- **Muster*Trac* Reporting:**
  - Exceptions - Attendance
  - Overtime - Absence/Presence

- **Reader Technologies Supported:**
  - Proximity/Legic
  - Biometrics
  - Smart Card
  - ABA magnetic stripe
  - PIN
  - Combined PIN/Stripe/Prox
  - Dallas Touch Chip
  - Wiegand
  - Marlok Keys

- **Anti-passback:**
  - Global, Paired or Timed

How to Order

Part Number	Description
135-509143-MTL	Millenium expert Software Package (CD and User Manual)
135-507591	Network License per PC
135-509233	Millenium Badge Software Add-on Software Package (CD and Manual)

MILLENNIUM
GROUP

9 Tech Circle, Natick, MA 01760
Toll Free: (866) 455-5222
www.millennium-groupinc.com

Site Control Unit

Site Control Unit — 149-101117

Description

- The SCU (Site Control Unit) is a communications hub and memory buffer for the door controllers and other devices within the Millenium family. A single SCU can support up to 100 Door controls and 10 Relay controls. On-board security measures ensure the integrity of the data as well as preventing attempted hacking or pirating of accounts.

Features

- All bi-directional communications to and from the PC can use either RS-232 or RS-485 protocols.

- Communications for the access control device node use a twisted pair, shielded cable on an RS-485 bus.

- Up to 1000 fully supervised SCU's can be connected to a single PC running Millenium Windows based software.

- The SCU is compatible with all of the popular communication modes found in today's installation environments: dial-up, fiber optic, leased line, radio frequency, and TCP/IP Networking protocol.

MILLENNIUM
G R O U P

M I L L E N I U M ™   O N - L I N E   S E C U R I T Y   M A N A G E M E N T   S Y S T E M

Site Control Unit (cont'd)

Specifications

Power Requirements

• 9-14 VDC, supplied by the Ilco Unican power supply. Current consumption is 50mA nominal, and 90mA maximum.

Circuit Protection

• Input power is protected from reverse polarity, over voltage, and transient surges.

PC to SCU Communications

• RS-232 via DB-9F connector or a 4-wire RS-485 connection using terminal blocks.

SCU Device Communications

• A twisted pair, multi-drop, RS-485 polling scheme is used to communicate from the SCU to the other Millenium devices.

Dial-up Modem Support

• Hayes AT command set, with communication speed set at 9600 baud. Call back feature when Event buffer is 80% full.

Supervisory Relay

• A 2 amp, 24 VDC, Single Form C relay that changes state when the SCU loses communication with the other board system.

All Events History Buffer

• 2000 all events history, stored in RAM memory with a minimum of 24 hours backup.

Priority Event Buffer

• 100 software selectable priority events (alarms, com fail, etc.). These events are stored on-board if the SCU is off-line with the host computer. They can be programmed to send signals back to the computer if they are activated.

Cover Tamper

• On-board integrated tamper switch.

External Clock Sync

• Terminal block connections are available for syncing the real time clock to an external AC source. Used for International AC situations and infrequent call-ins.

Approval and Listings

• UL 294

Operating Temperature

• 14° to 104°F (-10° to 40°C) less than 90% non-condensing humidity.

Dimensions

• 4.24" x 7.35" @ < 1lb

• 10.4 x 18.7cm @ < 0.45Kg

Accessories

060-101025   Standard Back Box

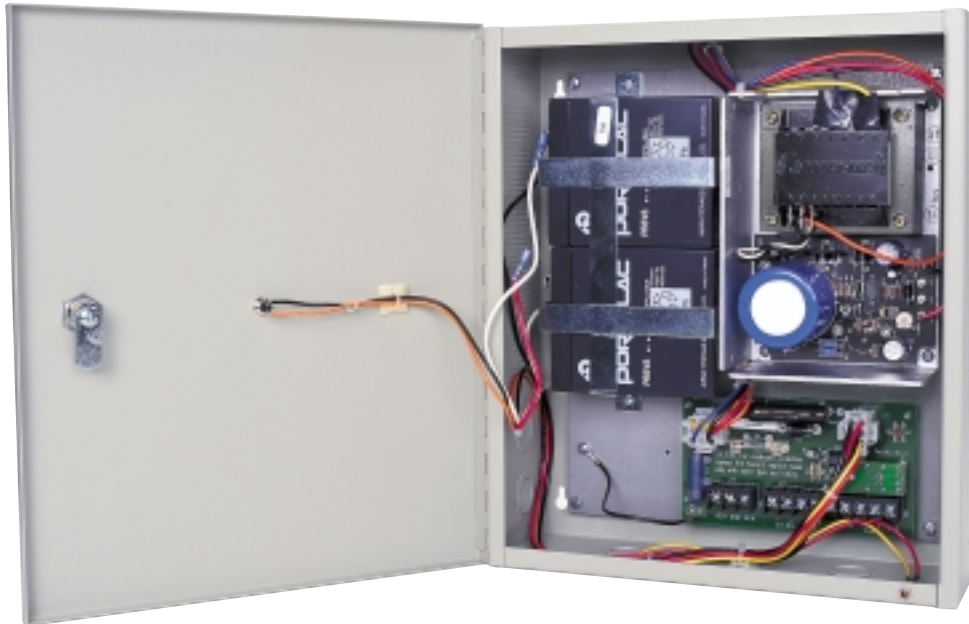060-037202   Back Box with lock cover

041-100992   Surface Mount Box

120-507991   SEI Site Ethernet Interface

MILLENNIUM
G R O U P

9 Tech Circle, Natick, MA 01760
Toll Free: (866) 455-5222
www.millennium-groupinc.com

Authorized Dealer:

Power Supply

PS1 Power Supply — PS1-100212-001 (120V)
— PS1-100213-001 (220V)

Description

• The PS1 (Power Supply) is an integral part of the Millenium System. It was designed as a very robust and filtered DC power source for the Millenium controller boards. It also contains a secondary board which generates the necessary biasing voltages for the RS-485 communications which the system relies on to communicate from the controller boards to the Site Control Unit.

Features

• The PS1 delivers a regulated and filtered output of 13.8 VDC at 5 Amps.

• The PS1 Board contains a Line Conditioner Board that is used to generate and filter the power required for RS-485 communications on the system.

• The PS1 packaged product includes batteries, the enclosure, and a key lock.

MILLENNIUM
G R O U P

M I L L E N I U M™   O N - L I N E   S E C U R I T Y   M A N A G E M E N T   S Y S T E M

Power Supply (cont'd)

Specifications

Input Power Requirements
• The PS1 requires 120 VAC or 220 VAC input on a 5 Amp unswitched dedicated circuit.

Output Power
• The PS1 delivers a regulated and filtered 13.8 VDC output.

Output Current
• The PS1 can deliver up to 5 Amps of continuous output current.

Battery Backup
• The PS1 uses two 6 volt, 8 Amp lead acid type batteries.

Fuser protection
• The AC input is protected by a 2 Amp Slow Blow fuse. An 5 Amp Slow Blow fuse is used to protect the batteries.

DC Output Protection
• The DC output is current limit protected against possible short circuits.

AC Failure Monitoring
• The PS1 has a Form A output for monitoring the status of the AC input.

Cover Tamper
• The PS1 has a Form A output to monitor the status of the enclosure door.

Approvals and Listings
• 120 V units: UL 294, UL 1950, CSA-950

• 220 V units: CSA-950

Operating Temperature
• 14° to 104°F (-10° to 40°C) less than 90% non-condensing humidity.

Dimensions
• 14.25" L x 12.25" W X 4.125" D @ 27lbs.

• 36.2 x 31.1 x 10.5cm @ 1.872Kg

Accessories and Packages
• PS1-100212-001
  Power supply & 8AH Batteries, 120v/60Hz, 5A/12V, line conditioner and batteries included.

• PS1-100213-001
  Power supply & 8AH Batteries, 240v/50Hz, 5A/12V, line conditioner and batteries included.

• 132-024003
  Battery, 6V 8AH gelled lead acid for PS1 (2 required per P.S.)

Millenium is a trademark of Kaba Holding AG

MILLENNIUM
G R O U P

9 Tech Circle, Natick, MA 01760
Toll Free: (866) 455-5222
www.millennium-groupinc.com

Authorized Dealer:

Door Control Device

Door Control Device — 149-100958

Description

- The DCD (Door Control Device) is designed to control a single access point. This device can accept inputs from most reader technology, analog alarm devices, and analog inputs from request to exit devices. In the event of a computer or communications failure it will still operate and log history transactions into the memory buffer.

Features

- Supports Wiegand Card Reader protocols, configurable from 0-50 bits; Magstripe technologies ABA/ISO Track 2 with configurable data bits; Clock and Data, and Marlok optical key protocol.

- Communicates using various types of supervised wiring methods including; Daisy-Chaining, T-Tapping, Home Running, Star Configuration, and High Security Loop Back.

- Up to 100,000 DCD's can be connected over 1000 SCU's (Site Control Units).

MILLENNIUM
G R O U P

Door Control Device (cont'd)

Specifications

Power Requirements

• 9-14 VDC, from our standard Power Supply. Current consumption is 50mA nominal, and 150 mA maximum.

Circuit Protection

• Input power is protected from reverse polarity, over voltage, and transient surges.

DCD Device Communications

• A twisted pair, multi-drop, RS-485 polling scheme is used to communicate from the DCD to the other Millenium Devices.

Programmable Relays

• Each DCD employs 2 programmable Single pole, Form C relays that are rated for 2 amps @ 24 VDC.

All Events History Buffer

• 200 all events history, stored in RAM memory with a minimum of 24 hours backup.

Alarm Monitoring

• The DCD has the capability to monitor up to 7 independent alarm inputs. 4 are supervised with 1K EOL resistors, and the other 3 are normally closed circuits. The circuit must have a break time of at least 500 ms for the alarm to trigger.

Priority Event Buffer

• 100 software selectable priority events (alarms, com fail, etc.). These events are stored on-board if the SCU is off-line with the host computer. They can be programmed to send signals back to the computer if they are activated.

Cover Tamper

• On-board integrated tamper switch.

Approvals and Listing

• UL 294

Operating Temperature

• 14° to 104°F (-10° to 40°C) less than 90% non-condensing humidity.

Dimensions

• 4.24" x 7.35" @ < 1lb

• 10.4 x 18.7cm @ < 0.4Kg

Accessories

060-101025   Standard Back Box

060-037202   Back Box with lock cover

041-100992   Surface Mount Box

Millenium is a trademark of Kaba Holding AG.

MILLENNIUM
G R O U P

9 Tech Circle, Natick, MA 01760
Toll Free: (866) 455-5222
www.millennium-groupinc.com

Authorized Dealer: