



Telephone Entry System

AV Intercom and Access Control

REV C September 2009

Model: PE-7000

The PE-7000 is an ideal audio-video telephone intercom system with integrated proximity card reader and lift car control capability suitable for residential and commercial applications.

It is designed as an inexpensive alternative to conventional intercom system to reduce overall system cost and enhance system reliability. Unlike other telephone entry systems, the PE-7000 is integrated with IP camera to deliver visitor's images to residents' smartphone similar to traditional audio-video intercom. Furthermore, the internal full-duplex speakerphone provides natural and clear conversation between two parties.

Features

- Audio-video capability
- Full-duplex conversation
- Up to 2000 users with up to three telephone numbers each
- Call progress monitoring, line polarity and line in-use detection
- Auto call diversion
- Backlit keypad
- Built-in real-time clock
- Entry code, proximity card entry and time zone
- Programmable tenant code, talk time and background beep tone
- Door control, door sense and exit push-switch
- Lift car control
- Built-in PSTN modem for remote monitoring and programming
- Ethernet port for data logging and IP camera
- Weather resistant and stainless steel construction



Optional Features / Accessories

- Lift car controller card to enable lift access from remote phone
- Text inserter for overlaying access information, e.g. unit number that the visitor is calling, onto video of security camera to enhance access security

Electrical Specifications

- Power input: 12VDC Input @ 300mA
- Protection: surge protection
- Camera: 1/3" colour CCD
- 12-key backlit keypad
- 20 characters by 4 lines LCD
- 2 serial ports and 1 Ethernet port
- Relay dry contact: 125V@2A

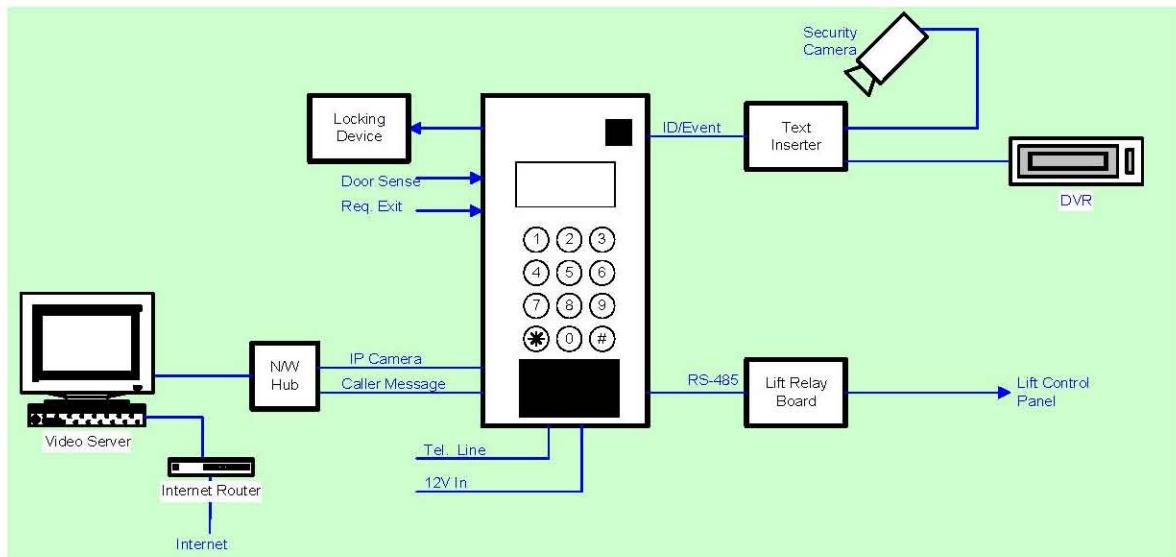
Mechanical Specifications

- Construction: Stainless steel and weather resistant design
- Finishing: Hairline or mirror
- Mounting type: Surface, flush or pedestal
- Dimension: L x W x D: 325mm x 130mm x 60mm

Operating Environment

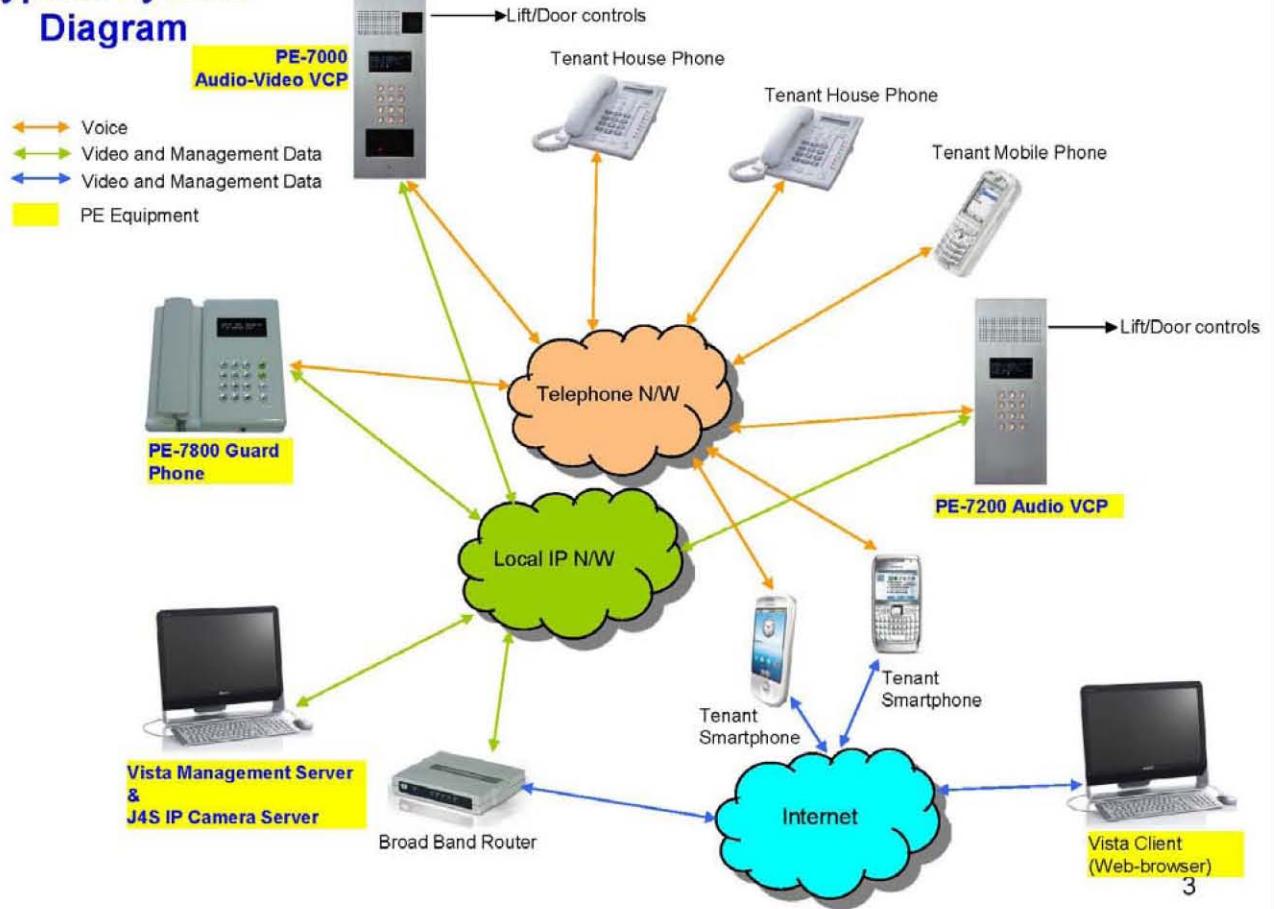
- Temperature: 0 to 55 °C
- Relative Humidity: 5% to 95% non-condensing

System Block Diagram



Specifications are subjected to changes without notification

Typical System Diagram



Also Available



PE-7100: Audio call panel with card reader



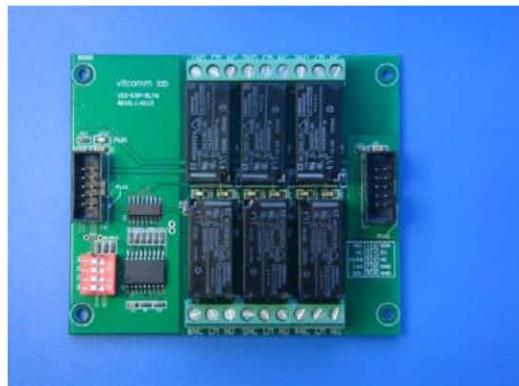
PE-7200: Audio call panel



PE-7800: Guard phone



VIO-485: Relay Controller Board



VIO-EXP6: Relay Expander Board

Door Controller

MQC-DLU2

UNIQUE FEATURES

Daily Access Pattern

Divide a day into up to 8 time zones, each with a different access right (Card only, Card + PIN, No Access)

Weekly Access Schedule

Select a different Daily Access Pattern for each day of the week. Each user's card for a particular door can be tied to a different Weekly Access Schedule

Roaming Domains

Group multiple doors and users together as a roaming domain, allowing easy allocation of access rights to large groups of doors and people

Open Sessions

Allow access to selected groups of people only when a location is not being used for other regularly scheduled activities (e.g. lessons)

SAM Slot

The SAM Slot provides for highly secure transactions when used with a smart card controller.



The MQC-DLU2 Controller has a small footprint that integrates control and power electronics into 1 compact PCB. The controller has been designed to withstand conditions in a rugged environment and can be configured to drive any embedded application

Transaction data is uploaded to the server immediately via TCP/IP. Broadcast information from the server can be transmitted to 256 controllers simultaneously. Constant synchronization between the server and the controller's clock ensures timestamping is accurate.

The controller supports up to 2 units of MQR-AC3 smartcard readers simultaneously (internal and external reader). Connection is via RS232. It also has 8 opto-isolated input ports and 4 output relays, facilitating integration with external systems.

Technical Specifications



MQC-DLU2

Dimensions	143 mm (L) x 84 mm (W) x 15 mm (H)
Supply Voltage	12V DC
Supply Current	150mA
Memory	128KB Flash Memory, 512KB EEPROM
Security	1 SAM slot (optional)
Communication	<ul style="list-style-type: none">• TCP/IP Port• 8 Opto Isolated Input Ports• Up to 4 Output Relay Ports• 2 RS232 Ports
Capacity	<ul style="list-style-type: none">• 20 Holiday Periods• 8 Office Hour Zones• 32 Daily Access Patterns, each with 8 time zones• 24 Weekly Access Schedules• 20 Door Tasks• 5000 User Cards• 100 Special Access/Facility Booking Cards• 450 Lesson Timings• 2500 Lesson Cards• 400 Open Sessions• 1250 Card Events• 2000 Door Events

GENSPRO TECHNOLOGIES PTE LTD

Blk 15, Lorong 8 Toa Payoh
#03-06 Braddell Tech
Singapore 319262
Tel: (65) 6259 1239
Fax: (65) 6259 0739
Email: admin@genspro.sg

Smartcard Terminal

MQR-LC1



The Smartcard Terminal MQR-LC1 is an intelligent device that uses a smart controller and a reader module based on the Near Field Communication (NFC) chip.

A sleek and modern design, together with an LED indicator that gives off a refreshing blue glow, set the terminal apart from conventional smartcard readers in the market.

It is able to read most of the popular contactless IC card technologies such as ISO14443A/B and Sony FeliCa. The NFC command set, such as peer to peer communication, smart tag etc., can also be implemented.

The terminal is also equipped with non volatile memory to store parameters as well as transaction data.

Technical Specifications

MQR-LC1

Dimensions	101mm (W) x 54mm (H) x 13mm (W)
Operating Distance	<= 50mm (depending on the card technology)
Supply Voltage	12V DC
Supply Current	125mA
Miscellaneous	<ul style="list-style-type: none">• 3 Colour LED Lights (Red, Green, Blue)• Buzzer
Memory	<ul style="list-style-type: none">• 128KB Flash Memory• 256KB EEPROM
Communication	1 x RS232 Port
Operating Frequency	13.56 MHz
Compatible Cards	ISO 14443 Type A (Mifare), Type B and Sony FeliCa

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Blk 15, Lorong 8 Toa Payoh
#03-06 Braddell Tech
Singapore 319262
Tel: (65) 6259 1239
Fax: (65) 6259 0739
Email: admin@genspro.sg



contactless technology at work for you

CONNECTING YOUR ORGANIZATION TO THE SMARCARD / RFID SOLUTIONS YOU NEED

ACCESS CONTROL

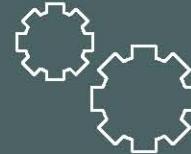
The Smart Access system features the latest in access control technology. Other than conventional features such as configurable daily access patterns and weekly schedules, floor plan uploading and door hour unlock timings, the system provides functionalities such as creation of roaming domains, open sessions and access based on user timetables. The web based software enables easy configuration of all system functions. Together, these features make Smart Access a robust yet flexible system.

SMARTACCESS SOLUTIONS

- ACCESS CONTROL
- TIME ATTENDANCE
- FACILITY BOOKING
- LIFT CONTROL
- PARKING
- CASHLESS PAYMENT
- LOCKER CONTROL

TIME ATTENDANCE

Our access control readers or standalone time attendance readers send attendance data back to the server in real time. The software is capable of generating timesheets based on normal office/school hours or based on shift operation. Data can be exported to external payroll or HR systems in a format customizable to user specifications, creating a seamless bridge between the 2 systems.



CUSTOM SOLUTIONS

Smart Access is a truly flexible solution. We are open to any requirements from our customers for customized features or alterations to existing functions and reports. This applies to both our hardware and software solutions



WEB INTERFACE

The web interface allows the system to be managed from any computer connected to the network. This enables facilities managers to easily access the system at any time and any place, enabling them to check and respond immediately to any incident.

END TO END SMARTCARD SOLUTION

FACILITY BOOKING

The Smart Access software has an intelligent facility booking system. It can be integrated with a scheduling system or time table to enable that facilities and resources are utilized to the maximum. Resource owners can be allowed to authorize or reject a booking request

via a web interface.

Resources can be physical resources such as tennis court, meeting rooms, classrooms; or networked resources such as computers and copier machines. This unique feature is often not found in most of the access control systems in the market today



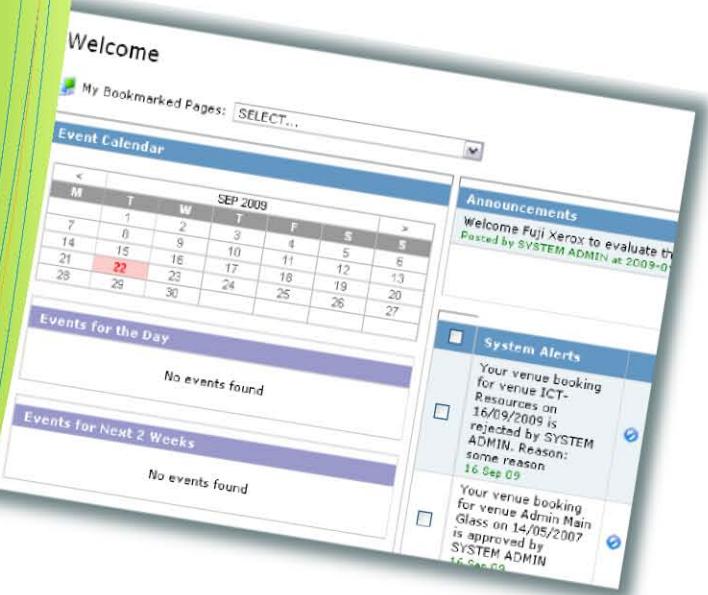
LOCKER CONTROL

Individual lockers can be fitted with the Smart Access locker system. The system is able to allocate lockers to a single person, or a group of users. For example, lockers can be made available to users from a particular department or a faculty. Locker usage information is captured and can be used to analyze usage patterns.

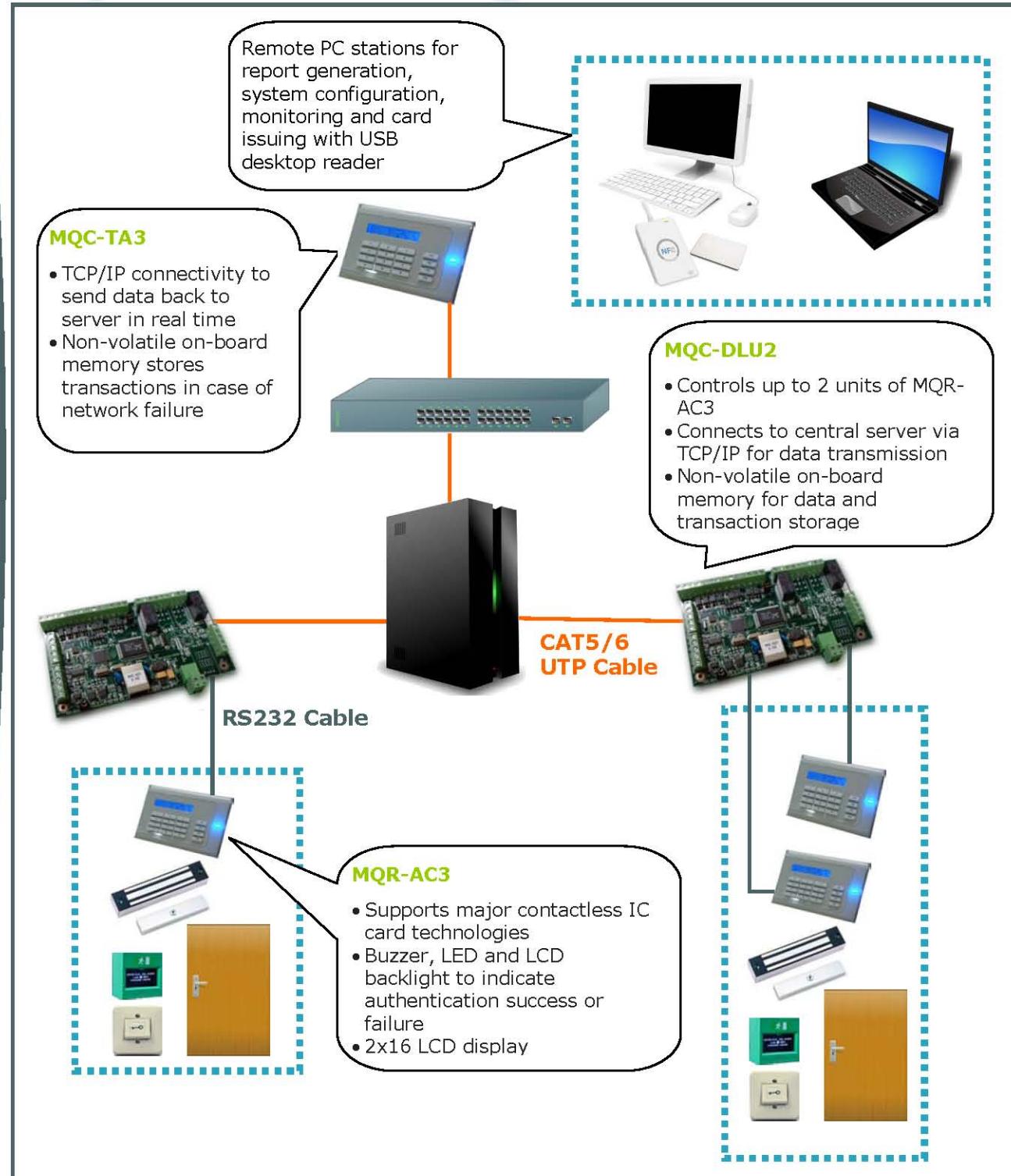


REAL TIME INFORMATION

While the system hardware can store information in its internal memory, all transaction data will be sent to the server in real time when network access is available. This provides instant information about the card holder and can act as a type of Real Time Location System.



System Configuration





Transaction-On-Video Verification System

State-of-Art features

- displays up to 10 lines
- displays up to 40 characters per line
- programmable text sizes, gray scale and background
- text can be positioned anywhere on screen
- programmable scrolling speed, pause and screen clear timers
- blinking text on flagged transactions
- 12 programmable flagged transactions
- 16 flagged transactions logging, expandable to 1000
- 02 alarm input
- 02 alarm output
- host/PC programming
- 3 LEDs status ON, COM and ALM
- 1 CLR button



TOV-340 is designed for single cash register applications on any BNC video surveillance systems. It captures and superimposes cash receipt transaction data onto live video with the cashier's activities recorded on the surveillance systems.

Implementing TOV-340 minimizes shrink and increases profits for F&B owners and retail managers. It is also capable of pinpointing flagged transactions such as VOID, REFUND, NO SALES etc ... and compatible with most cash register and Point-Of-Sales Systems.

Customized PI4ECR printer interface boards and cables available for wide range of ECR and POS.



Technical Specification		TOV-340
No. of Character		40 characters per line
No. of Line		10
No. of Digital Input		02 (two) dry contacts or TTL logic levels
No. of Digital Output		02 (two) open collector
Digital Output Sinking Current		200mA (max)
Video Input		1 Vpp, 75 ohm termination
Video Standard		2:1 interlace composite video (PAL or NTSC)
Communication Port		COM 1: compliant to EIA-232 standard, +/- 10V level
		COM2: selectable standard, EIA-232 or EIA-485 or TTL
Positioning of Displayed Text		Available via software or panel programming
Sizes of Displayed Text		02 (two) selectable via software or panel programming
Tensity of Text		Programmable
Text Scrolling Speed		Adjustable via software or panel programming
Flagged Transactions		12 (Twelve) programmable
Displayed Text Background		On/Off
Blinking Displayed Text		Yes, when received flagged transactions
Pausing of Displayed Text		10 seconds (default), timing is programmable
Input Voltage		9 -12 Vdc
Reverse Voltage Protection		Yes, with diode protection
Input Current		200mA (typical)
Over Current Protection		Polyswitch fuse at 1.1A trip current
External Dimensions (mm)		98 (W) x 103 (L) x 28 (H)
Nett Weight (kg)		0.5 approx.
Storage Temperature (deg C)		-20.00 to 85.00
Operating Temperature (deg C)		-10.00 to 55.00
Humidity		20.00 to 90.00 % RH (non-condensing)

