

ACU1000 Access Control System



Key Features

- 10BaseT Communication Interface with TCPIP protocol
- Alternative RS485 Communication Interface or use as redundancy communication
- Modular 4 or 8 Access Control Readers and up to 300+ Input/Output points per panel
- Expandable to 2048 Access Control Readers and 50,000+ Input/Output points per system
- 20,000 cardholders and 10,000 events, expandable to 100,000 cardholders and 200,000 events
- Built-in varistor surge suppression and solid-state electronics fuse
- Advanced IBSS2000 Graphical User Interface software with client/server or Web based support
- Optional dial-up modem and wireless(RF) communication interface



ISO 9001:2000 REGISTERED FIRM
DNV Certification B.V., THE NETHERLANDS
Certificate No: RSEA-QSC-1365

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- **Advance networking connection**

- Support 10BaseT port with TCP/IP protocol for LAN or WAN connectivity and/or RS485 network communication
- Dual redundancy network enhanced secure data transmission
- Remote control via dial-up modem

- **Expandable from a single standalone operation to full networking of up to 2048 readers and 50,000+ Input/Output points**

- Standalone operation can run without any PC
- Networking with TCP/IP or RS485 to up to 2048 readers and more than 50,000 Input/Output points
- Interface to advanced Windows98/2000 based user friendly GUI software (IBSS2000)

- **High end integrated access control intrusion functions**

- Support 20,000 cardholders, 64 weekly schedules, 4 x 256 access groups and 10,000 event buffers
- Integrate access control with intrusion feature
- Expanded to 8 doors for access door per panel
- Expanded to 208 input points or 104 output points for intrusion function per panel
- Support Industry standard Wiegand

format or RS485 interface for Proximity, Biometric & Contactless smart card (MIFARE™) readers

- **Multi-function TERMINAL port for easy diagnostics, local configuration and event printing capabilities**

- RS232 port for any local computer including palmtop (Palm™) support
- Full database setup/configuration facilities
- Full fault diagnostic
- On line printing of events to any serial printer

- **Easy to Install and Maintain**

- Modular electronic board. Apply plug-n-play technology, auto-detection of additional module, no change in software required
- All connectors are plug-able type for easy termination and servicing
- Easy DIP switch settings
- Modular 10A power supply unit with battery backup and automatic switchover
- On board LED for diagnosis on input line fault condition
- Colour terminal block for different function

- **Built-in protection against tampering and harsh environment**

- Solid state automatic reset-able fuse

protection means replacing fuse is a thing of the past

- Lightning/Surge protection circuits
- Supervised alarm input lines for open-circuit and short-circuit detection
- On board optical sensor for tamper protection
- EMC/EMI certification

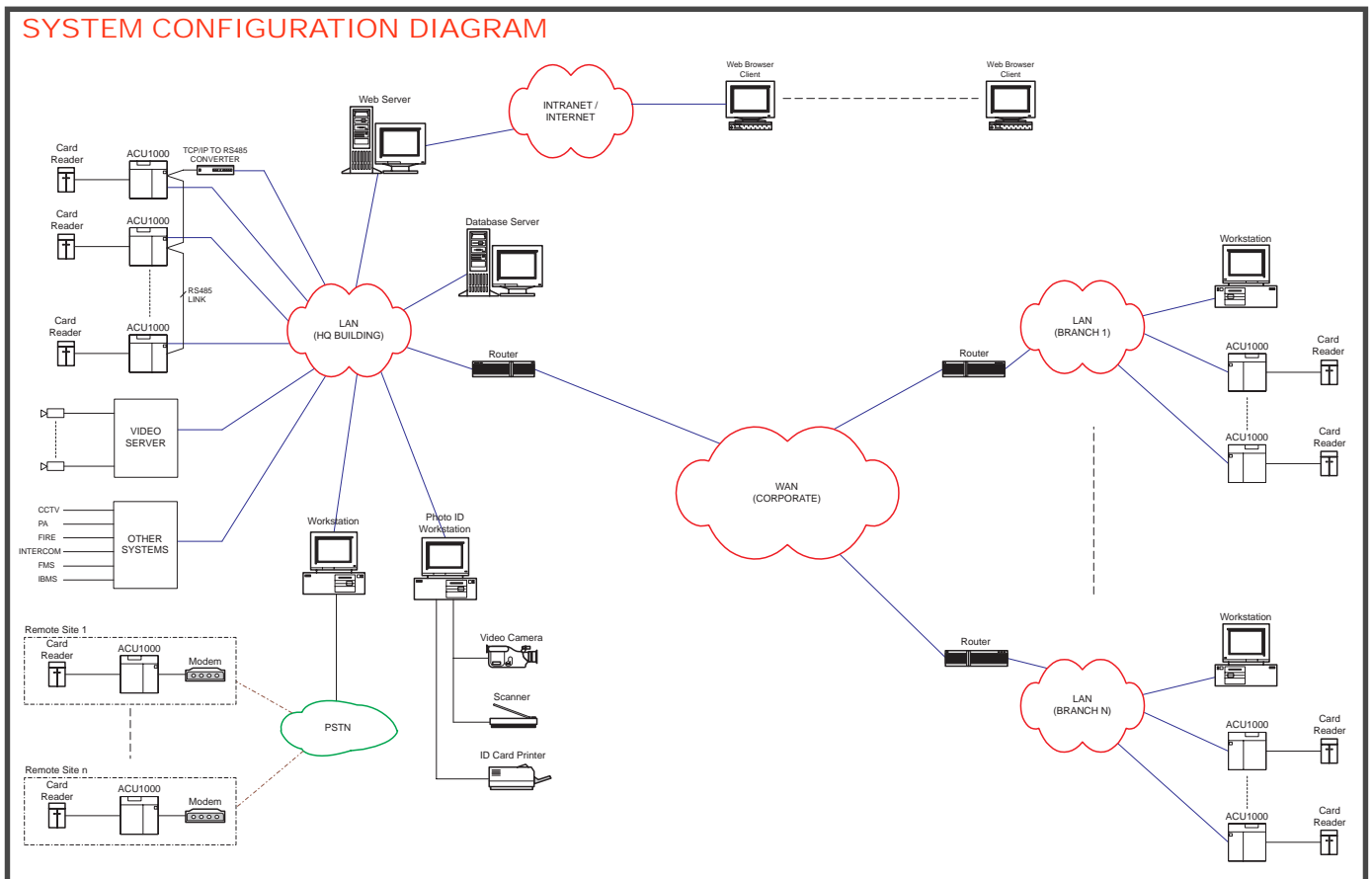
- **High technology design provides long term investment protection**

- Flash memory design for easy upgradeable controller software
- Interface options to modem
- Upgradeable CPU module for even better performance
- SMT components for smaller footprint

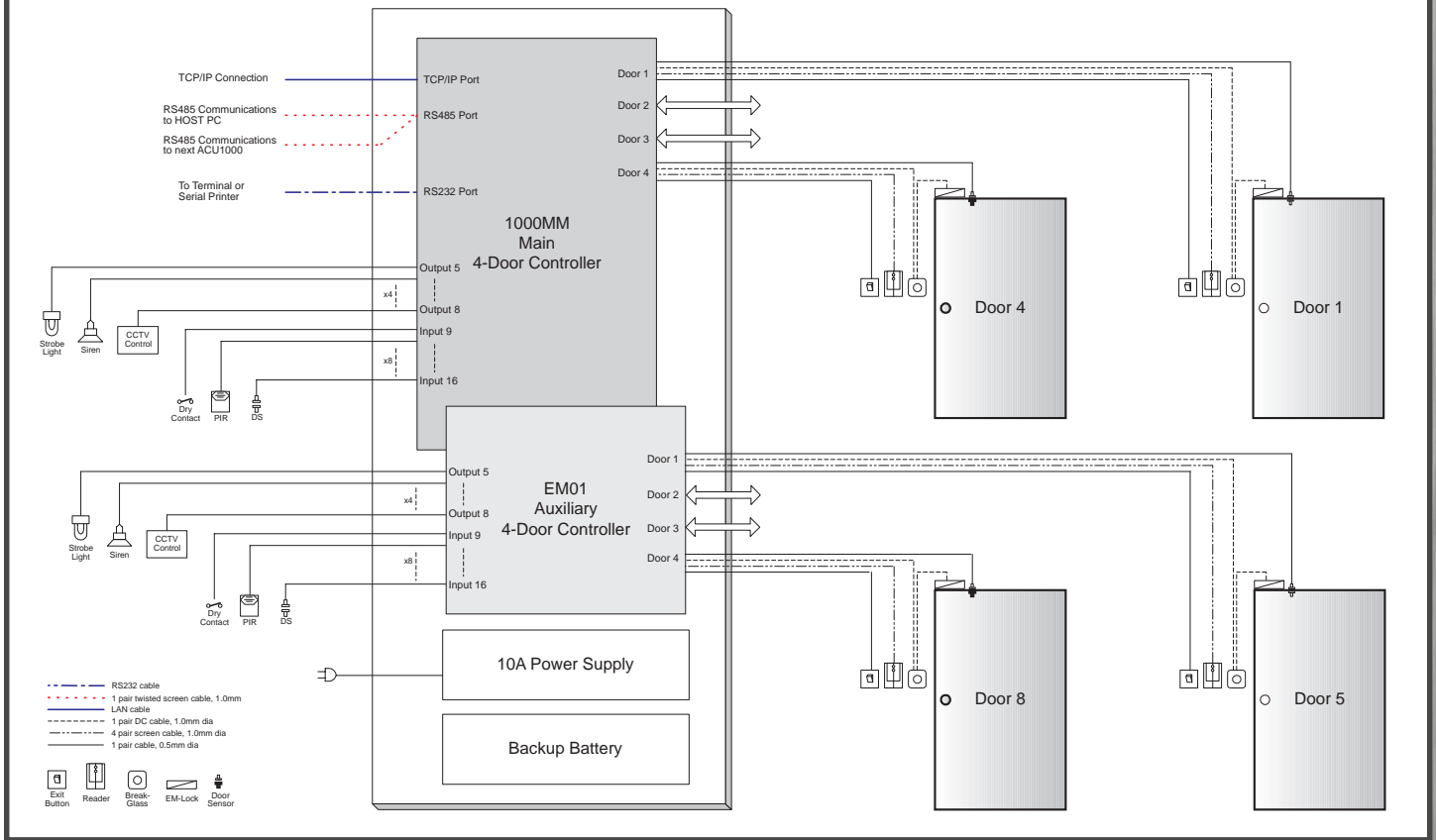
- **Example Applications**

- Access control for Door, Car Park, Lift (Elevator), Operator Workstation, etc.
- Time Attendance, Guard Tour, Visitor Management, Library, etc.
- Intrusion detection, Panic Alarm, Lighting control, equipment status display and control, Mimic panel indication
- Facilities Booking System
- Integration to Photo ID, Intercom, CCTV, Public Address, Fire Alarm, Facilities Management and Building Automation Systems

SYSTEM CONFIGURATION DIAGRAM



ACU1000 CONNECTIVITY DIAGRAM (8-DOOR VERSION)



Module Description:

EM04 : Extension input module for 64 input

This is an expansion module that has 64 input points. It can be used to detect alarm input devices, such as for door sensors, PIR, glassbreak sensors, etc. The board must work with 1000MM and can provide support up to 80 inputs and 8 outputs

EM03 : Extension module for 32 output

This is an expansion module that has 32 output points, it can use to trigger external devices such as for sounder, strobe light, switching of CCTV camera interface, etc. The board must work with 1000MM and can provide support up to 16 inputs and 40 outputs

EM02 : Extension module for 32input/16output

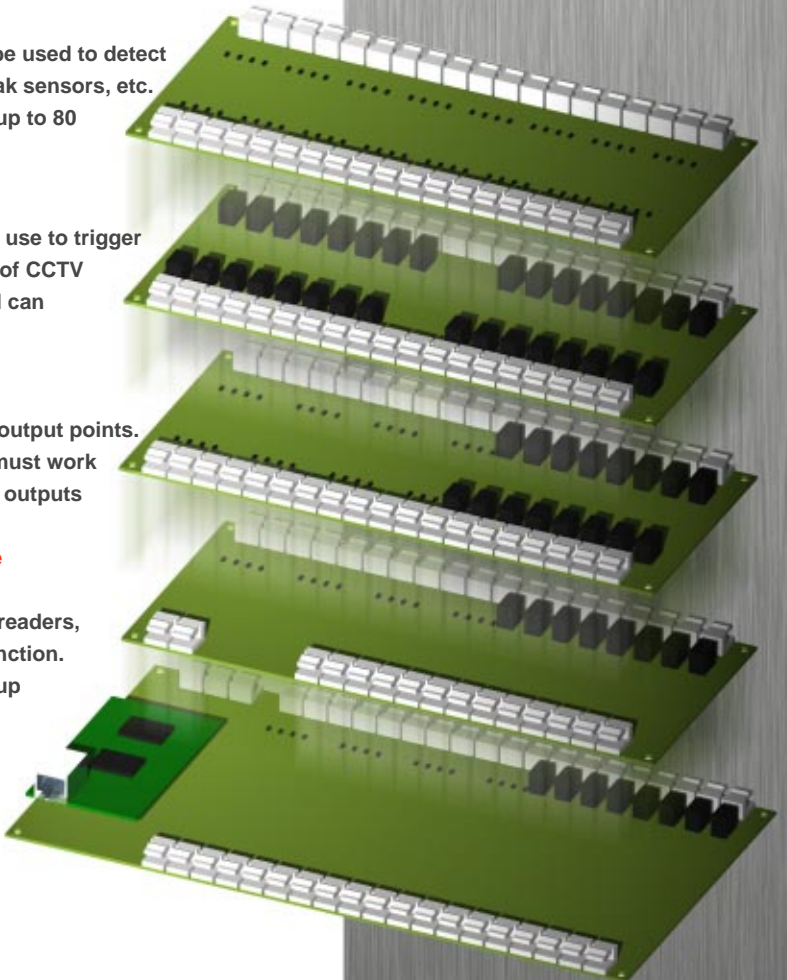
This is an expansion module that has 32 input points and 16 output points. It is used mainly for intrusion detection function. The board must work with 1000MM and can provide support up to 48 inputs and 24 outputs

EM01 : Extension module for additional 4 reader interface with 16in/8out points

This is an expansion module that can also connect to 4 card readers, 16 input points and 8 output points for intrusion detection function. The board must work with 1000MM and can provide support up to 8 card readers, 32 inputs, and 16 outputs.

1000MM : Main controller base module support 4 readers and 16in/8out points

This is the main module of the ACU1000 series with master CPU and 10BaseT port. It can connect up to 4 card readers, 16 input and 8 output points for intrusion function.



ACU1000 Access Control System

Technical Specifications:

a) 1000MM module : 4-door main controller with 16in/8out

- DC input: 12VDC
- Readers interface: 4
- Readers type: Proximity in Weigand or RS485 format, Contactless Smart card, Biometric
- Input points: 16
- Input type: Supervised / non-supervised
- Relay output: 8
- Output type: NC, NO, or DC12V/1A
- Communication ports: TCP/IP, RS485(Host link), RS232(Terminal)
- Communication speed: RS485, Up to 115k baud rate maximum
RS232, up to 56k baud rate maximum
- Board size: 285mm x 155mm
- Tamper: Optical sensor
- Fault diagnosis: LED for all input line supervise & output switching
- Terminal block: Plug-able type
- Power consumption: 6W

b) EM01 module : auxiliary 4-door controller with 16in/8out

- DC input: 12VDC
- Readers interface: 4
- Readers type: Proximity in Weigand or RS485 format, Contactless Smart card, Biometric
- Input points: 16
- Input type: Supervised / non-supervised
- Relay output: 8
- Output type: NC, NO, or DC12V/1A
- Communication ports: RS485(Dev link)
- Communication speed: Up to 115k baud rate maximum
- Board size: 225mm x 100mm
- Fault diagnosis: LED for all input line supervise & output switching
- Terminal block: Plug-able type
- Power consumption: 5W

c) EM02 module : 32input/16output

- DC input: 12VDC
- Input points: 32
- Input type: Supervised / non-supervised
- Relay output: 16
- Output type: NC, NO, or DC12V/1A
- Communication ports: RS485(Dev link)
- Communication speed: Up to 115k baud rate maximum
- Board size: 225mm x 100mm
- Fault diagnosis: LED for all input line supervise & output switching
- Terminal block: Plug-able type
- Power consumption: 8W

d) EM03 module : 32output

- DC input: 12VDC
- Relay output: 32
- Output type: NC, NO, or DC12V/1A
- Communication ports; RS485(Dev link)
- Communication speed: Up to 115k baud rate maximum
- Board size: 225mm x 100mm
- Fault diagnosis: LED for all output switching
- Terminal block: Plug-able type
- Power consumption: 11.5W

e) EM04 module : 64 input

- DC input: 12VDC
- Input points: 64
- Input type: Supervised / non-supervised
- Communication ports: RS485(Dev link)
- Communication speed: Up to 115k baud rate maximum
- Board size: 225mm x 100mm
- Fault diagnosis: LED for all input line supervise
- Terminal block: Plug-able type
- Power consumption: 4W

ACU1000 Panel Specifications

- AC input: 110/230Vac, 50Hz, 1A
- DC Power Supply Unit: 13.8VDC/10A, switchmode
- Battery Backup: 12VDC/12Ah, sealed lead acid
- Operating temperature: -20°C to 60°C
- Modules: 1x1000mm plus up to 3 expansion modules (EM01, EM02, EM03, EM04)
- Tamper: On-board optical sensor
- Enclosure dimension: 375mm(H) x 330mm(W) x 125cm(D)
- Weight: 5kg without battery

System Operational Specifications

- Cardholders: 20,000 (expandable to 100,000)
- Event buffers: 10,000 (Expandable to 200,000)
- Schedules: 64 max
- User Groups: 4 x 256 max
- Access Modes: Card only, Card + PIN
- Multi-card : 1, 2, 3 or 4 cards access
- Max panels: 256
- Max readers: 2048
- Max IO points: 50,000

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