



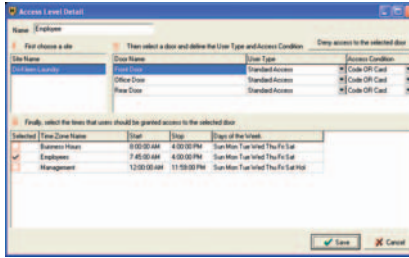
NETWORKED ACCESS CONTROL SOLUTIONS



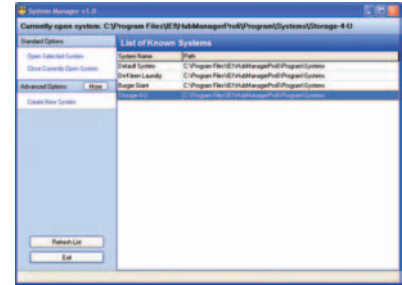
ACCESS CONTROL SOLUTIONS FOR A CHANGING WORLD™



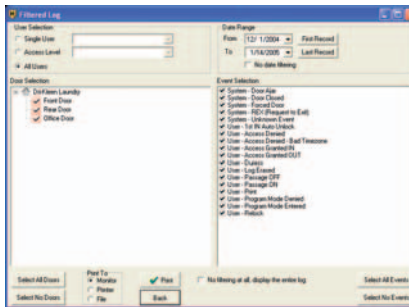
HUB MANAGER™ PROFESSIONAL SOFTWARE



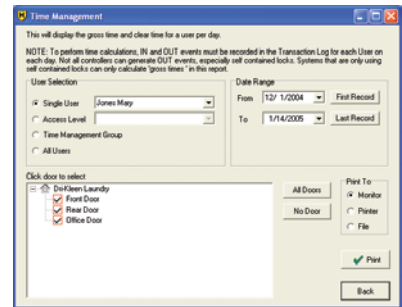
Quickly configure access levels as easy as 1, 2, 3...



With the NEW *System Manager* feature, users manage IEI access systems from multiple PC's. Dealers can manage multiple accounts and account sites from a central station.



Quickly and easily set up and produce management reports.



Time management feature calculates how long users are in on any particular day.

A Secured Series™ Access Control System with Hub Manager™ Professional Access Control Software is a smart and easy to use solution for small to midsize applications.

Hub Manager Professional manages both hard-wire access controls and battery operated door controls in one system. Multiple connectivity options include LAN/WAN, serial communication bus, modem, or wireless IR data communication via hand-held PDA.

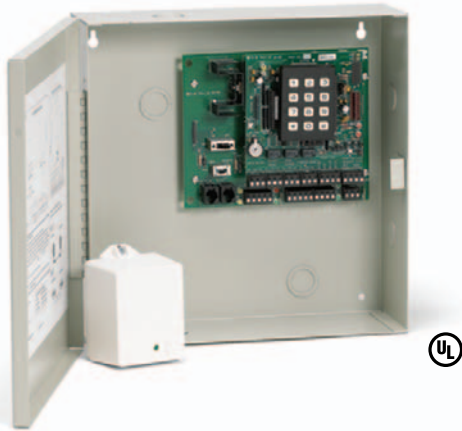
Fast and powerful management reports meet the requirements of the mainstream commercial access control market and Hub Manager Professional Software uses access levels for construction of logical groupings of doors, sites, and time zones.

Hub Manager Professional features a set of programming wizards that make system set up and system modifications easy for the end-user. Build new access levels, construct remote sites, add door after door, add operators and set privileges—the most complex operations for other access control systems—are made easy with Hub Manager Professional's programming wizards.

FEATURES:

- Manage IEI access control systems from many PC's
- Dealers can manage multiple accounts & account sites from a central station
- 64 doors per site
- Supports HubMax, MiniMax, and prox.pad™ plus hard-wire platforms
- Supports LS-2 Series battery operated platform
- 999 sites
- Remote management via modem or LAN/WAN
- 2,000 users per door
- 10,000 users system-wide
- Update doors at many sites with one mouse click
- Report writer integration
- Support wireless IR data communication via PDA for LS-2 Series
- Easily produce management reports
- Automatic daylight savings time option
- Easy to use set up wizard
- User-list set up wizard
- Time and attendance feature
- Unlimited operators – password protected data base
- Microsoft Windows® 98/2000/XP

SECURED SERIES™ SYSTEMS OVERVIEW



MINIMAX™ II

The MiniMax features the IEI Door Control Module (DCM) preinstalled on the backplane and contains a power supply for readers as well as for the door strike or magnetic lock (AC or DC). The MiniMax is ideal for applications where the control is installed at the door (e.g. above the ceiling over the door). The MiniMax is designed for simplicity and to provide a clean and easy installation. MiniMax includes Hub Manager Professional software.

HUBMAX™ II

HubMax is designed as a modular Access Control System in one or more sites. You can start as a single-door system and then easily plug in Door Control Modules to create a perfectly tailored access control system. Each HubMax comes complete with a HubMax backplane, programming keypad, mounting enclosure and single HubMax Door Control Module. The backplane provides expansion slots for three more Door Control Modules allowing for up to four Door Control Modules; as needs demand. The HubMax can be networked with other controllers to create the ultimate flexibility in system design. HubMax includes Hub Manager Professional software.



PROX.PAD™ PLUS INTEGRATED ACCESS SYSTEM

The IEI prox.pad plus is a fully integrated single door access system with advanced capabilities for networking up to 32 doors per site. This latest addition to the IEI Access System product line allows for diverse network application solutions when using Hub Manager Professional and Secure Ethernet Gateway.



- Fast mounting local controller eliminates costly wire runs
- Integrated HID proximity reader can be mounted up to 10' from controller
- Audit trail, time zones, unlimited sites and holiday scheduling
- Can use existing LAN/WAN wiring or proprietary 485 network

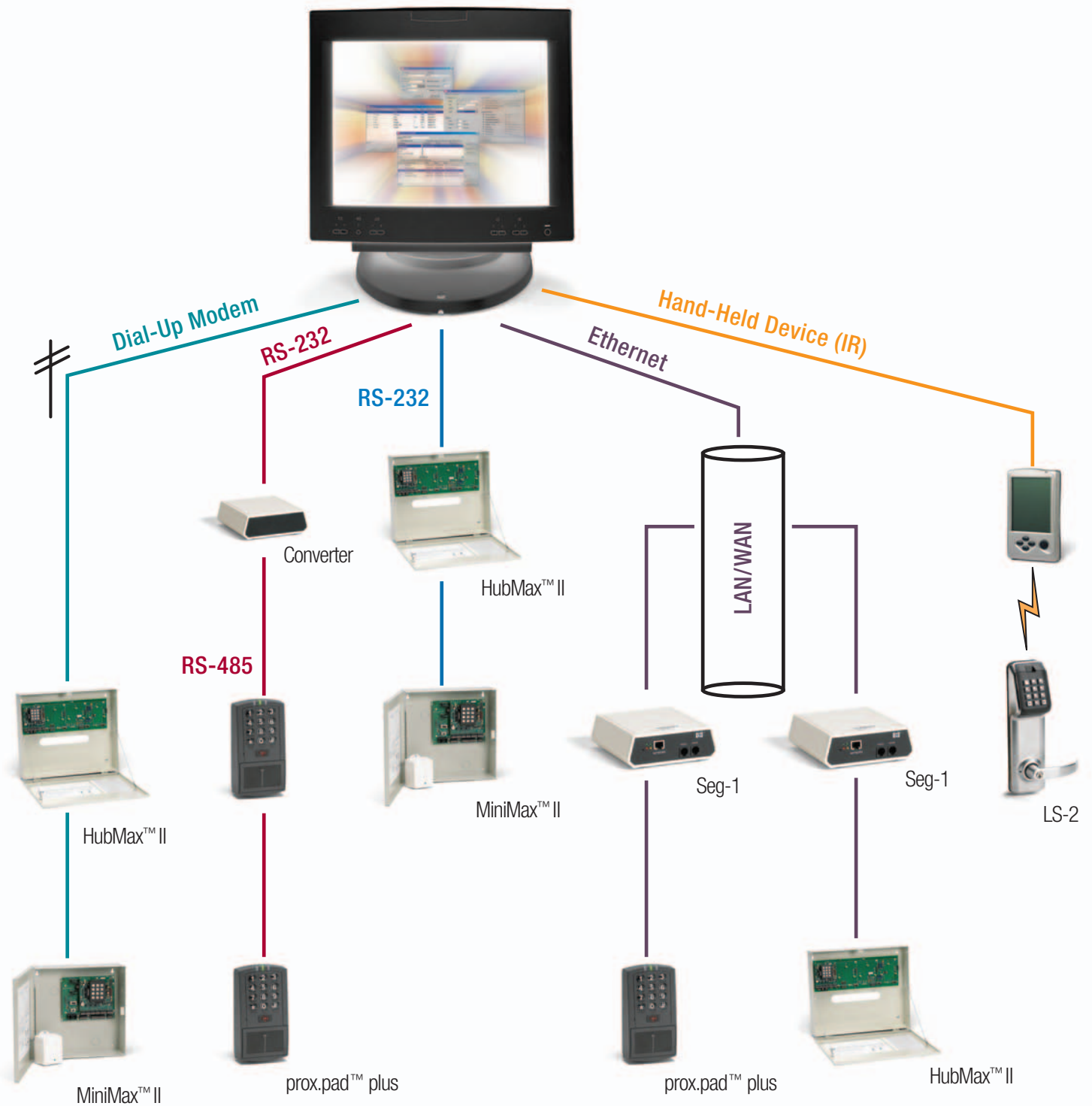
LS SERIES™ ACCESS CONTROL LOCKSETS



-  Grade 1 Locksets
 - Non-volatile eeprom memory allows in-shop programming
 - One non-handed unit for indoor and outdoor application
 - Wire raceway provides clean installation and protects wires inside door
 - Programs the same as all IEI products
- Two stage low battery alert assures entry
 - Propped door and forced door alerts when used with a standard magnetic switch
 - Request to exit allows door to be unlocked remotely
 - Four standard AA batteries provide up to 150,000 operations
 - **LS-2:** IR Communication to Hub Manager Professional Software via hand held device
 - **LS-2P:** Adds higher security with Proximity Reader
- Available in:
- Cylindrical
 - Mortise
 - Exit
 - Mortise w/ Deadbolt

SYSTEMS COMMUNICATION CONFIGURATION OPTIONS

IEI Secured Series™ offers the widest range of communication options allowing the system to be configured to your customer's specific requirements.



SECURE ETHERNET GATEWAY



The Secure Ethernet Gateway is a LAN/WAN (TCP/IP to serial) interface enabling convenient and secure management of IEL access systems

across an end user's network. Access system data is encrypted using 128 bit Advanced Encryption Standard (AES) ensuring that user and door information cannot be compromised. This standard is known and trusted by IT professionals everywhere.

The Secure Ethernet Gateway allows HubMax™ series controllers and the prox.pad™ plus to be programmed and managed by any network PC running Hub Manager™ Professional software Version 5.0 or higher.

QUALIFIED PC MODEMS

- SS-Modem: IEL modem for Hub/Mini Max II controllers
- Boca 14.4k External, Model 14400E
- Boca 33.6k External
- US Robotics: 33.6k External, Model 000839-09
- US Robotics 56k External, Model 005686-03

CONVERTERS

- SS-IM: Secured Series Information Module
- RS-232 to RS-485: IEL part number IEL232-485
- USB to RS232: IEL part number – USB-232
- USB to RS485: IEL part number – USB-485

READERS & KEYPADS

All Secured Series readers and keypads are suitable for indoor or outdoor mounting



PROX.PAD™

- Keypad & proximity
- HID compatible
- Includes glass mount kit
- 5.26"x 2.75"x 1.375"



SS-PROXPOINT

- Fits on door frame
- Read range 2-3"
- 3.135"x 1.7"x .510"



SS-PROXPRO

- HID compatible
- Read range up to 8"
- 5.0"x 5.0"x 1.0"



SS-NT MAXIPRO

- HID compatible
- Read range up to 24"
- 12.0"x 12.0"x 1.0"



SS-MINIPRO

- HID compatible
- Fits on door frame
- Read range up to 5.5"
- 5.0"x 1.7"x .75"



SS-THINLINE™ II

- HID compatible
- Read range up to 5.5"
- 4.7"x 3.0"x .5"



SS-KP500WP

- Vandal-resistant
- Metal keys w/Braille
- Surface mount
- 4.5"x 3.0"x 1.55"



SSW-FX

- Vandal-resistant metal case
- No moving parts
- Touch sensitive flat keys
- 5.1"x 3.47"x .71"



SS-TCH500W

- Dallas Semiconductor touch chip technology
- Waterproof
- Vandal-resistant
- 4.5"x 2.75"x .25"



SSW-ILW

- Illuminated hardened keys
- Flush mount
- 5.1"x 3.47"x .71"



SS-CR500W

- Uses any Track II ANSI cards
- 4.5"x 1.75"x 1.55"



BioRead™ BR-1100

- Finger only – no card required
- 90 Templates
- Add/delete with hand-held programmer [BR-1250]
- Authenticate in less than 2 seconds
- 12 VDC
- Wiegand output [requires SS-IM for Secured Series]
- Indoor / outdoor [with BR-1151 enclosure and BR-1152 heater]



SS-ILM-BZ (BRONZE)

- Illuminated, hardened keys
- Fits on door frame
- Available in Bronze or Aluminum
- 6.48"x 1.71"x 1.12"



SS-KP500R-WH

- One piece housing suitable for wall, post, or gooseneck mounting
- 5.25"x 3.75"x 2.5"



SSW-E

- Illuminated, hard keys
- Five year warranty
- Flush mount
- 4.5"x 2.75"x .6"



SSW-EM

- Durable metal trim
- Metal braille keys
- Flushmount
- Five year warranty
- 4.5"x 2.75"x .6"



EZ-Rex

- Switch life greater than 20k operations
- Weatherproof
- Solid State – no moving parts
- No mounting box required
- Operating force: 6 - 12 oz.

SPECIFICATIONS

Mechanical:

Enclosure size:

HubMax: 16"h x 19"w x 4"d

MiniMax: 11.5"h x 11.5"w x 3.75"d

HubMax Electrical:

Input: 16.5VAC +/- 10% 20VA – Includes Transformer

Battery Circuit Output: 13.8VDC typical, 7.2 Ah max., 1Ah min.

Battery Charge Type: Float

AC Ripple: 50mV P-P

MiniMax Electrical:

Input: 16.5VAC +/- 10% 20VA – Includes Transformer

Accessory Device Circuit Output: 13.8 VDC typical, .5A max., 1AH Battery min*

Battery Circuit Output: 13.8VDC typical, 6AH Battery max., 1AH min.

Locking Device Circuit Output: 13.8 VDC typical, 16.5 VAC 1A max*

Battery Charge Type: Float

AC Ripple: 50mV P-P

*Total current drain for all outputs should not exceed 1Amp

Wiring Requirements:

Maximum Distances with shielded:	18 AWG	20 AWG	22 AWG
Controller to reader/keypad	1000'	500'	250'
Controller to controller	1000'	500'	250'
Controller to PC or Printer	1000'	500'	250'

Outputs:

RS-232 ports for printing and networking functions.

DCM Main Lock Relay: SPDT 2 amps @ 24VDC.

DCM Forced Door, Propped Door, Alarm Shunt Relays: SPDT 1 amp @ 24VDC.

Environmental:

Operating temperature: -20°F to 130°F (-28°C to 54°C)

Hub Manager Professional Minimum System Requirements:

- 486 or higher processor
- Microsoft Windows® 98/2000/XP
- 12 MB RAM
- CD ROM drive (for installation)
- Monitor: VGA or higher
- Modem: IEL qualified modem for remote applications

Qualified PC Modems:

- Boca 14.4k External, Model M1440E
- Boca 33.6k External
- US Robotics 33.6k External, Model 000839-09
- US Robotics 56k External, Model 005686-03

Cards & Tokens

Prox Cards

DuoProx II – Prox plus
Magstripe technology

ProxCard II

ISOProx II – Same size
as credit card

ProxKey II – Prox key fob

Mag Cards

MagCrd – 10 (10 pack)

MagCrd – 25 (25 pack)

MagCrd – 100 (100 pack)

Touch Chips

TchChp – 10 (10 pack)

TchChp – 25 (25 pack)

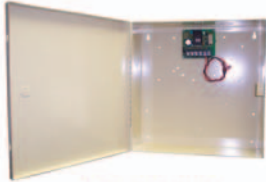
TchChp – 100 (100 pack)

ACCESSORIES

Access Systems Power Supplies

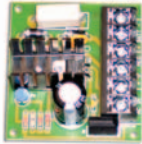
The IEI **PowerGard™** Power Supplies are designed and manufactured to meet the demands of access control installations today. Available in cabinet, board level, or plug in configurations, we have the form factor to meet your needs.

- High performance at an economical price
- Filtered and regulated
- Self resetting smartfuse protection
- Fast battery charging
- Programmable 12 or 24 VDC operation
- 1.3 Amp and 2.5 Amp versions



PowerGard™ Power Supplies

- PG 1224-1-C** 12 or 24 volt DC, 1.3 amp supply in cabinet
PG-1224-3-C 12 or 24 volt DC, 2.5 amp supply in cabinet



- PG 1224-1** 12 or 24 volt DC, 1.3 amp supply – board only
PG-1224-3 12 or 24 volt DC, 2.5 amp supply – board only
 For your convenience the PG-1224-3 installs onto stand offs in the HubMax™ II cabinet.

Transformer Requirements for PowerGard™ Power Supplies

1.3 Amp Versions

For 12 VDC operation use separately purchased 16.5 VAC; 40 VA transformer

For 24 VDC operation use separately purchased 24 VAC; 40 VA transformer

2.5 Amp Versions

For 12 VDC operation use separately purchased 16.5 VAC; 40 VA transformer

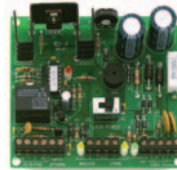
For 24 VDC operation use separately purchased 24 VAC; 60 VA transformer

Tampered Power Supplies

Filtered and regulated 12VDC, 1.2 amp with tamper module to protect against bypass due to circuit shorting. Switchable AC/DC with built-in surge suppression for lock hardware, auto resetting poly fuses.



- PWR/TMPR12P**
 12VDC, 1.2 amp supply in cabinet with transformer



- PWR/TMPR12**
 12VDC, 1.2 amp supply – board only – Requires 16.5 VAC transformer



IEI PIP's

Plug-In Power Supplies

- Transient Protection
- Auto resetting poly fuses
- Grounded
- LED power indicator

PIP 12VDC	12 VDC	1,000, mA
PIP 24VDC	24 VDC	1,000 mA
PIP 12VAC	12 VAC	40 VA
PIP 16.5VAC	16.5 VAC	40 VA
PIP 24VAC	24 VAC	40 VA



CT-70

CT-70 Multi-Function Timer

- Operating voltage: 6VDC or 12VDC
- 1 to 60 seconds or 1 to 30 minutes
- Optional reset switch

- Three operational modes:

Mode 1 - When voltage is applied, the timer relay will energize at the end of time delay until voltage is removed

Mode 2 - The timer relay will energize when voltage is first applied and drop out at the end of time delay

Mode 3 - The timer relay will pulse on and off at a pulse rate set by potentiometer

International Electronics, Inc. (IEI) designs, manufactures and markets electronic access control products for the security, material handling and industrial markets. IEI's products include Keypad and Stand Alone Systems, Access Control Locksets, Network Based Access Control, Browser Managed Access Control, Mobile Fleet Access Control and Fleet Management Systems. It markets these products to the leading industry distribution, installation and vertical end-user companies in the U.S., as well as Europe, Asia, Canada, South America and Australia.



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