



Linear eMerge E3-Series Access Control



eMerge Essential & Essential Plus | 1-4 Doors
eMerge Elite | Up to 64-Doors

eMerge E3 Series

Access Control Made Easy

Affordable, Scalable, Browser-Based Access Control

The eMerge® E3-Series represents the next step in the evolution of Linear's access control platform, delivering faster set-up, enhanced features, and industry-leading scalability that outperforms the competition.

The E3-Series embedded browser-based network appliances make advanced security technology reliable and affordable for any entry-level access control application. With tens of thousands of access control systems deployed in the field, and backed by decades of experience, Linear continues to deliver unprecedented value and innovation.

These full-featured, self-contained hardware/software access systems are perfect for commercial, industrial, banking, medical, retail, hospitality, and other businesses where users need to secure their facilities, manage access of personnel, create and analyze reports, and monitor the system remotely from any web browser.

The E3-Series' comprehensive wizard is fast and intuitive, saving significant set-up time.

Both the Essential and Elite can be seamlessly scaled up, via software keys, to other eMerge E3-Series systems providing increased door and reader capacity, enhanced features, and higher level capabilities. Linear's eMerge E3-Series makes expansion easy.

The eMerge Essential and Elite set new standards of excellence for reliability, ease-of-use, expandability, best-in-class value and lowest cost of ownership.



Experience E3! Fast, Intuitive, Easy-To-Use



Essential™ or Elite™ in Compact Case



Essential Plus™ or Elite™ in Metal Cabinet

Supported Web Browsers



eMerge E3 Series

Not all Access Control Systems are Created Equal

The Linear E3-Series Advantage: Total Cost of Ownership (TCO)

Long-term, total cost of ownership of an eMerge E3 system is significantly lower than many similar products. Users can realize significant cost reductions when compared to traditional access systems:

How eMerge E3-Series Lowers Your Total Cost:

- Browser-based access system is faster to setup, simpler to maintain
- Embedded Linux Operating System (O/S)
 - MVP (Minimized Virus Potential)
 - No Microsoft update dependencies
- Independent network, server, and dedicated workstation hardware are not required
- Includes SQL database engine; no add-on database software licenses required
- No client licenses to load
- Common hardware installation reduces hardware training and inventory cost
- Common software user interface reduces training costs as systems are migrated to more powerful models
- Open platform allows for cost-effective integration with other technologies



The E3-Series browser-based access system saves time and money!

PC-based access servers fail, due to moving hard drives. Competitive models will typically require hard drive and server software replacement at least once over the life of their systems

Software Feature Comparison

eMerge	Essential™	Essential Plus™	Elite™ (36-Doors)	Elite™ (64-Doors)
Dashboard	•	•	•	•
Graphic floorplans	•	•	•	•
Card decoder	•	•	•	•
SQL database	•	•	•	•
First-in-unlock rule	•	•	•	•
Manager first rule	•	•	•	•
2-man rule	•	•	•	•
Portal unlock scheduling by time	•	•	•	•
Multiple holiday schedules	•	•	•	•
Multiple language support	•	•	•	•
Audit trail	•	•	•	•
CSV file import tool	•	•	•	•
Custom reports	•	•	•	•
Optional Digital Watchdog™ VMAX integration	•	•	•	•
Threat Level Management				
Alters access control system behavior globally			•	•
Threat levels			5	5
Network-secure API for external application integration			•	•
Distributed Redundant Database architecture (DRD)			•	•
User-definable fields		5		10
Maximum video tagging channels		32	64	128

eMerge E3 Series

Overview of System Features

Essential & Essential Plus

The entry-level eMerge Essential and Essential Plus supply the right amount of access control businesses need starting with 1-door / 2-reader capacity, plus immediate expansion capability to 4-doors / 8-readers (no additional hardware is needed to expand to 2, 3, or 4 doors).

- *License-To-Go™* upgrade key provides more doors or video integration with Digital Watchdog™ VMAX-Series DVRs
- Essential: Housed in a compact plastic enclosure
- Essential Plus: Housed in a steel enclosure; includes supervised AC battery back-up
- Easily scalable via software upgrade keys to higher-capacity E3-Series eMerge Elite models

Elite

- Elite ships starting with 4-doors; expandable up to 64-doors
- Includes Distributed Redundant Database (DRD) architecture
- More users, doors, readers, online transactions and overall capacity
- Advanced access control features & capabilities
- Centralized and/or distributed hardware
- Remote management-capable

E3 Video Integration

Linear has partnered with Digital Watchdog™, a leading supplier of digital video recorders (DVRs), to provide two fully-integrated access and video solutions:

- 1) Use a software upgrade key from Linear's innovative *License-To-Go™* server to add Digital Watchdog™ VMAX video DVR integration to an existing E3 eMerge system or to add an E3 system to an existing Digital Watchdog™ VMAX video surveillance system.
- 2) For an even more integrated experience Linear offers the Essential OneBox™ combining Linear's award-winning embedded browser access control platform with Digital Watchdog's full featured VMAX digital video recording systems, all housed within the same enclosure.



E3 OneBox™

- E3 GUI supports both access control and video
- Feature-rich integration including video event tagging
- Small footprint, single wall mountable cabinet
- Full suite of DW applications: Smartphone, browser and client software
- All-in-one hardware design



1-Click Video from Your Access Control Dashboard



Award-winning Access Control +
Video in One Compact Enclosure

eMerge E3 Series

Capabilities that Outshine Other Systems

Common Features

- Shared hardware and software architecture across all eMerge E3-Series means easy upgrades and expansion
- Reliable, IT-friendly embedded Linux operating system significantly reduces:
 - Virus/spyware attacks
 - Operating system update dependency
- SQL database with optional API available (Elite only)
- Intuitive quick-start wizard allows for ultra-fast setup, saves hours of time versus traditional systems
- Browser-based management enables system status and updates from any place, on nearly any browser, using any operating system
- Easily upgradable to incorporate future E3 technology integrations via License-To-Go™ software keys. Video, badging, visitor management, asset tracking, etc.
- UL 294 Certification (pending)

Hardware Features

- 100% solid state components for extended service life, providing lowest total cost of ownership
- High-speed, 1GHz processor handles multiple simultaneous users and more than 30 transactions per second
- Compact Micro-SD card included with every controller, for long-term event storage
- Integrated tamper switch and inputs / outputs for additional functionality
- Optional Power over Ethernet (PoE) available on all controllers, expansion nodes, and ACMs allowing for backup power through a UPS
- Controller and Expansion Node enclosure options:
 - Small footprint ruggedized plastic enclosure provides up to 4 doors / 8 reader capacity (does not include power supply)
 - Midsized metal enclosure with key lock includes 60 watt 12VDC power supply. Can house controller and one additional ACM for a total of 8 doors / 16 reader capacity
 - All metal enclosures include supervised AC battery backup system with charging circuit capable of charging two 7 amp-hour batteries (batteries not included)

Software Features

- One common software platform that incorporates configuration keys for each model and upgrade keys for adding additional capabilities
- Optimized for use with iPhone, iPad, Android, tablets, and other mobile devices
- Dashboard displays full system status-at-a-glance including:
 - Event and activity log
 - Customizable door diagrams/floor plans with factory default templates
- Time-saving and convenient features:
 - Integrated card decoder tool
 - CSV flat file database import and export
 - Dynamic event filtering
 - E-mail, text message notifications
 - Built in audit-trail
 - Simple, easy-to-use predefined reports
 - Automatic daily data backup
 - Micro SD or FTP-based storage
 - Built-in documentation library
- Optional software updates for new feature and product enhancements



E3 eMerge models are fully optimized for mobile devices

eMerge E3 Series

Ordering Guide

Module

Enclosure

The model number determines the e3 eMerge system and options.

Order using these easy steps:

1 Select Module Type

- ES - Essential model
- EL36 - Elite-36 model
- EXN - Expansion node
- EV - Elevator module
- ACM - Access Control Module

2 Select Module Door Capacity

- 1 - Essential 1-door model
- 2 - EXN expansion node w/2-door module capacity
- 4 - Essential 4-door model
- 4 - door EXN expansion node
- Elite model w/4-door module capacity

3 Select Enclosure Type

- C - Compact Plastic
- M - Metal/Standard Size
- XL - Metal/Extra Large Size (available 2014)

ES-1CB

4 Select Reader Bundle

B - Reader bundle matches module door capacity (1, 2, or 4)

No "B" at the end of the model number indicates no readers are included

Additional Options & Accessories

MODEL	DESCRIPTION
ACM Modules (to add into existing enclosures)	
ACM2D	2-Door ACM Module
ACM4D	4-Door ACM Module
ACMEV	Elevator ACM Module
ACM2DB	2-Door ACM Module w/2-Reader Bundle
ACM4DB	4-Door ACM Module w/4-Reader Bundle
License & Reader Combination Packages	
ES-1DL	Essential 1-door license
ES-1DLB	Essential 1-door license with 1-reader bundle
EL36-4CB	Elite-36 4-door system w/4-reader bundle, compact
EL36-4MB	Elite-36 4-door system w/4-reader bundle, metal
System Upgrade	
ES-U36	Essential upgrade to Elite 36-door system
EL-U64	Upgrade license for Elite to 64-door capacity
Extended Warranties	
E3-EW3	Extended 3-year warranty
E3-EW5	Extended 5-year warranty

MODEL	DESCRIPTION
Power Options	
E3-POE	PoE Module - adds PoE capability
PIP12VDCRU	Plug-in-Power Supply 12V DC 24 Watt
PIP12V60W	Plug-in-Power Supply 12V DC 60 Watt
B-12VDC7A	Battery - 12VDC 7 alignment - Battery AH
Proximity Readers	
2N1-HAF	Single Gang/Mullion Mount Multi-Technology Reader
P-300HA	HID/AWID Compatible Prox Reader, Mullion
P-500HA	HID/AWID Compatible Prox Reader, Single Gang
P-640HA	HID/AWID Compatible Prox Reader, with keypad
Cards & Key Fobs	
ProxCard II	Wiegand 125 kHz HID Compatible Proximity Card
ProxKey	Wiegand 125 kHz HID Compatible Proximity Key Fobs
REX	
EZ-Rex	Easy Touch Request to Exit (Heavy Duty)

eMerge E3 Series

Specification Comparisons

eMerge	Essential™	Essential Plus™	Elite™ (36-Doors)	Elite™ (64-Doors)
Processor	1GHz			
On-board RAM	512MB DDR2 (333MHz)			
Storage	4 GB Micro SD		8 GB Micro SD	16 GB Micro SD
Power	12V-DC			
Operating System	Embedded Linux			
Maximum Administrators	Varies by Model			
Maximum Concurrent Administrators	8		16	
Transactions Per Second	30+			
Doors/Portals	1 to 4		36	64
Maximum Readers	8		72	128
Expansion Modules	N/A		9	16
Elevator Control Modules	N/A		Yes	
Maximum Elevators	N/A		4	
Maximum Floors	N/A		36	
Maximum Elevator Groups	N/A		16	
Inputs	Up to 12		108	192
Outputs	Up to 8		72	128
Virtual Outputs	No		Yes	
Maximum Users/Cardholders	1,000		6,000	6,000
Maximum Photos (*additional SD memory required)	1,000		6,000*	6,000*
Access Cards	8,000		32,000	64,000
Cards Per Person	12		32	120
Card Formats	32			
Total System Access Levels	25		250	
Time Specs (schedules)	25		128	
Holidays	30		60	
Online Transactions	15,000		30,000	
User Defined Data Fields	5		10	
Threat Levels	N/A		5	
Enclosure Dimensions				
Compact Plastic (W x H x D):	12.25 in x 11.1 in x 2.23 in (31.1 cm x 28.2 cm x 5.7 cm)			
Mid-sized Steel (W x H x D):	17.5 in x 14.25 in x 6.5 in (44.5 cm x 36.2 cm x 16.5 cm)			
Warranty	1 Year			

For more information, please visit www.linearcorp.com.

Specifications subject to change without notice.

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