

# Recommended Peripherals List

## PXL / Entraguard Product Families

The peripherals listed in the tables below have been tested and certified by Keri Systems to work properly in PXL-500 and Entraguard access control systems. Basic support (switch settings, software settings, and wiring diagrams) for these peripherals is available from Keri Systems. Peripherals not purchased from Keri Systems are not covered by any Keri Systems warranty. Keri Systems is not required to provide support for items not listed below and can not guarantee that unlisted peripherals will operate properly in PXL-500 and Entraguard access control systems.

### Power Supplies

#### Minimum Requirements

- regulated, linear power supplies recommended
- approved switching power supplies  
(switching power supplies that generate EMI will degrade the system performance and are not approved for use)

**Table 1: Recommended Power Supplies<sup>a</sup>**

Manufacturer	Description	Model Number	Available from Keri Systems	Normally Stocked	Works with EntraGuard	Keri Systems Part Number
ESD <sup>b</sup>	12 Volt 2 Amp	LP-2	YES	YES	YES	KPS-5
ESD <sup>b</sup>	12 Volt 2.5 Amp	LP-2.5	YES	YES	YES	KPS-5-1
ESD <sup>b</sup>	12 Volt 10 Amp	SPS-10 ELC16	YES	YES	YES	KPS-11
ESD <sup>b</sup>	12 Volt 6.5 Amp	SPS-6.5 E	NO	NO	YES	–
ESD <sup>b c</sup>	12 Volt 6.5 Amp	SPS-6.5 M4E	NO	NO	YES	–
Anoma Corp.	12 Volt 1.2 Amp	AEC- R012-120	YES	YES	YES	KPS-7

- a. Keri Systems, Inc. recommends the use of separate power supplies for locks and other peripherals.  
 b. For more information see [www.securitypower.com](http://www.securitypower.com).  
 c. For use with the KE-8.

### Surge and Lightning Protectors

#### Minimum Requirements

- 3 stage protection device

**Table 2: Recommended Surge and Lightning Protectors**

Manufacturer	Description	Model Number	Available from Keri Systems	Normally Stocked	Works with EntraGuard	Keri Systems Part Number
B&B Electronics <sup>a</sup>	3 stage protection device	485HESP	NO	NO	YES	–

- a. For more information see [www.BB-Elec.com](http://www.BB-Elec.com).

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### Modems

#### Minimum Requirements

- nonvolatile (NV) RAM back-up
- communicates at 9600 baud or greater
- dedicated phone line

**Table 3: Recommended Modems**

Manufacturer <sup>a</sup>	Description	Model Number	Available From Keri Systems	Normally Stocked	Works with EntraGuard	Keri Systems Part Number
AOpen	External 56K	FM56-EXV	NO	NO	YES	–
TrendNet	External 56K	TFM-560X	YES	YES	YES	EXM-56C
SupraMax	External 56K	SM-56E	NO	NO	YES	–

- a. When connecting to a remote site via modem, Keri Systems requires that the modems used be from the same manufacturer at both the host computer and the remote site. This eliminates the possibility of incompatibilities between modems from two different manufacturers from affecting the communication between access control network and *Doors* software. Keri Systems cannot be held responsible for problems caused by incompatibilities between modems from two different manufacturers.

*NOTE: When adding a 56K modem to an existing access control network, all 56K modems in the network must be .v90, or greater, compatible to prevent communication problems between the modems.*

### Short-Haul Modems (Line Drivers) for Extended RS-232 Communication

#### Minimum Requirements

- none

**Table 4: Recommended Short-Haul Modems**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Works with EntraGuard	Keri Systems Part Number
Telebyte <sup>a</sup>	Short Haul Direct Connect	209	NO	NO	YES <sup>b</sup>	–
Telebyte <sup>a</sup>	Short Haul Direct Connect	201	NO	NO	YES <sup>b</sup>	–

- a. For more information see [www.telebyteusa.com](http://www.telebyteusa.com).
- b. These Short Haul modems are too large to fit into the Entraguard Titanium enclosure, so an extension cable needs to be constructed to relocate the short haul modem and allow the Entraguard front panel to be closed properly. For instructions on creating the extension cable, see the Short Haul Modem Quick Start Guide P/N 01850-001.

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### Bar Code Readers

#### Minimum Requirements

- 26-bit Wiegand output
- capable of reading code 3 of 9 bar codes

**Table 5: Recommended Bar Code Readers**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Keri Systems Part Number
International Bar Code <sup>a</sup>	Indoor/Outdoor Reader	IHG0L000 W6R2	YES	YES	BC-60

a. For more information see [www.interbar.com](http://www.interbar.com).

### Magnetic Stripe Readers

#### Minimum Requirements

- 26-bit Wiegand output
- capable of reading ANSI or EMPI cards

**Table 6: Recommended Magnetic Stripe Readers – 26-bit**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Keri Systems Part Number
Dorado <sup>a</sup>	Indoor Pass-Through	644	NO	–	–

a. For more information see [www.hidcorp.com](http://www.hidcorp.com).

### Keypads

#### Minimum Requirements

- 26-bit Wiegand output

**Table 7: Recommended Keypads**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Keri Systems Part Number
Essex <sup>a</sup>	3x4 Keypad	KTP-103-S	YES	YES	SX-34

a. For more information see [www.keyless.com](http://www.keyless.com).

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### Wiegand Stripe Readers

Minimum Requirements

- 5 to 12 VDC

**Table 8: Recommended Wiegand Stripe Readers**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Keri Systems Part Number
HID <sup>a</sup>	Imbedded Wire	310	NO	NO	–

a. For more information see [www.hidcorp.com](http://www.hidcorp.com).

### Biometric Readers

Minimum Requirements

- 26-bit Wiegand output

**Table 9: Recommended Biometric Readers**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Keri Systems Part Number
Recognition Systems, Inc. <sup>a</sup>	Hand Geometry	ID3D-R	YES	NO	–
Bioscrypt Identification, Inc. <sup>b</sup>	Fingerprint Verification	V-Pass	YES	NO	–
Bioscrypt Identification, Inc. <sup>b</sup>	Fingerprint Verification	V-Flex	YES	NO	–
Bioscrypt Identification, Inc. <sup>b</sup>	Fingerprint Verification	V-Prox	YES	NO	–
Bioscrypt Identification, Inc. <sup>b</sup>	Fingerprint Verification	V-Smart	YES	NO	–

a. For more information see [www.handreader.com](http://www.handreader.com).

b. For more information see [www.bioscrypt.com](http://www.bioscrypt.com).

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### Wiegand Proximity Readers

#### Minimum Requirements

- 5 to 12 VDC
- Wiegand output

**Table 10: Recommended Wiegand Proximity Readers**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Keri Systems Part Number
Farpointe Data <sup>a</sup>	Proximity Reader	P-300/H Cascade P-400/H Gibraltar P-500/H Alps P-640/H Patagonia Reader and Keypad P-700/H Yukon	YES	YES	P-300/H P-400/H P-500/H P-640/H  P-700/H
		P-650/H Card+PIN Reader and Keypad	NO	NO	–
		Delta3 Mullion MultiTech Prox Smartcard Delta5 Switchplate MultiTech Prox Smartcard Delta6.4 Keypad MultiTech Prox Smartcard	YES	YES	Delta3  Delta5  Delta6.4
HID <sup>b</sup>	Proximity Reader	MiniProx-5365 ProxPro-5355	NO	NO	–

a. For more information see [www.farpointedata.com](http://www.farpointedata.com).

b. For more information see [www.hidcorp.com](http://www.hidcorp.com).

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### Wiegand RF Readers

Minimum Requirements

- Wiegand output

**Table 11: Recommended Wiegand RF Readers**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Keri Systems Part Number
Linear <sup>a</sup>	RF Receiver	AM-WOR	NO	NO	–
Linear <sup>a</sup>	RF Receiver	MDR	NO	NO	–
Linear <sup>a</sup>	RF Transmitter	ACT-31B	NO	NO	–
Linear <sup>a</sup>	RF Transmitter	ACT-34B	YES	NO	–
Door King <sup>b</sup>	SuperHet RF Receiver	8059	NO	NO	–

a. For more information see [www.linearcorp.com](http://www.linearcorp.com).

b. For more information see [www.doorking.com](http://www.doorking.com).

### Web Cameras/Digital Cameras – for Badging Applications

Minimum Requirements

- varies by operating system

**Table 12: Recommended Web Cameras/Digital Cameras**

Manufacturer <sup>a</sup>	Description	Model Number	Available From Keri Systems	Normally Stocked	Keri Systems Part Number
Canon	digital camera	A400 PowerShot	NO	NO	–

a. Refer to the Manufacturer's web site for camera information.

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### Fiber Optic Data Link

Minimum Requirements

- RS-485 communications

**Table 13: Recommended Fiber Optic Data Link Devices**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Keri Systems Part Number
International Fiber Systems (IFS)	Single Line RS-485 Fiber Optic Link	D1300	NO	–	–
International Fiber Systems (IFS)	Two Line RS-485 Fiber Optic Link	D2300	NO	–	–

### USB Serial Port Adapters

Used for Doors / PXL serial communications on PCs without a serial port.

Minimum Requirements

- none

**Table 14: Recommended USB Serial Port Adaptors**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Works with EntraGuard	Keri Systems Part Number
Keyspan	USB Serial Adapter	USA-19H	YES	YES	YES	KUSC-10
IOGEAR	USB PDA/ Serial Adapter	G-UC232A	NO	NO	YES	–
Belkin	USB Serial Adapter	F5U103	NO	NO	YES	–

### USB To Ethernet Adapters

Used in a stand alone security network to provide simplified controller Auto-Configuration.

Minimum Requirements

- none

**Table 15: Recommended USB to Ethernet Adaptors**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Works with EntraGuard	Keri Systems Part Number
Trendnet	USB Ethernet Adapter	TU2-ET100	YES	YES	NO	USB-A

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### Card Reader/Keypad Housing

#### Minimum Requirements

- none

**Table 16: Recommended Card Reader/Keypad Housing**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Keri Systems Part Number
The Housing Company <sup>a</sup>	Lexan Polycarbonate 7" x 7" x 3.5"D	PCH049	No	No	–
The Housing Company	Lexan Polycarbonate 7" x 13" x 3.5"D	PCH091	No	No	–
The Housing Company	Lexan Polycarbonate 4" x 14" x 3.5"D	PCH196	No	No	–

a. For more information see [www.thehousingcompany.com](http://www.thehousingcompany.com), or call 678-799-7539.

### Gate Operators

#### Minimum Requirements

- Varies by operating system

**Table 17: Recommended Gate Operators**

Manufacturer	Description	Model Number	Available From Keri Systems	Normally Stocked	Keri Systems Part Number
Edko, Inc. <sup>a</sup>	Barrier Gate Operators	–	No	No	–
Edko, Inc. <sup>a</sup>	Swing Gate Operators	–	No	No	–
Edko, Inc. <sup>a</sup>	Slide Gate Operators	–	No	No	–

a. For more information see [www.edko.com](http://www.edko.com).

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### Contact Keri Systems

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Web: <a href="http://www.kerisys.com">www.kerisys.com</a>	Web: <a href="http://www.kerisystems.co.uk">www.kerisystems.co.uk</a>
E-mail: <a href="mailto:sales@kerisys.com">sales@kerisys.com</a> <a href="mailto:techsupport@kerisys.com">techsupport@kerisys.com</a>	E-mail: <a href="mailto:sales@kerisystems.co.uk">sales@kerisystems.co.uk</a> <a href="mailto:tech-support@kerisystems.co.uk">tech-support@kerisystems.co.uk</a>

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