

# Liberty Access Control

100% Web Based Network Centric



■ **Simple**

Enables fast, easy deployment via intuitive web-based user interface for configuration and programming with reduced installation time, costs, and hardware footprint

■ **Secure**

Conventional door devices wire directly to Liberty Encryption Bridge, translating device data to TCP/IP for 256-bit AES secured communication with the appliance and software

■ **Economical**

Significantly reduces costs by replacing expensive, cumbersome control panel hardware and installation with a compact, energy-efficient Liberty Encryption Bridge

**Flexible, Powerful. And Easy to Operate.**

The Liberty Access Control system is a powerful, affordable access control solution for small-to-medium installations. Liberty provides web-based access control management for up to 32 doors, including elevator control and complex input and output logic. Liberty utilizes a compact web server appliance to administer the entire system and is accessible from any web browser and browser-enabled device.

Liberty is easy to install and configure. Simply connect the Liberty Cube and Liberty Encryption Bridges to the IP network switch, log in, and select the "Scan Devices" button in the System Utilities tab. The software will automatically populate the database with the Liberty Encryption Bridges on the network.

It's easy to retrofit without disruption. Liberty enables an efficient pathway for retrofitting conventional access control systems. Existing door devices and cabling can be reused and Liberty supports an unlimited number of card formats with the ability to decrypt unknown formats.

The Liberty Encryption Bridge is an Internet of Things (IoT) device for physical access control designed to translate varying door and security device protocols to a standard, highly secured cross-platform protocol. It deploys with a small footprint, supports Power over Ethernet (PoE), 256-bit AES encryption, and does not require firmware updating for software version updates and release versions.

**Key Features:**

Web based UI

- Managed through web browser-enabled devices

Software Bundled on the Liberty Cube

- Powerful appliance
- Includes all licensing
- Rack mountable

Cyber Secure

- No data at the edge
- 256-bit AES encryption
- Perpetual communication

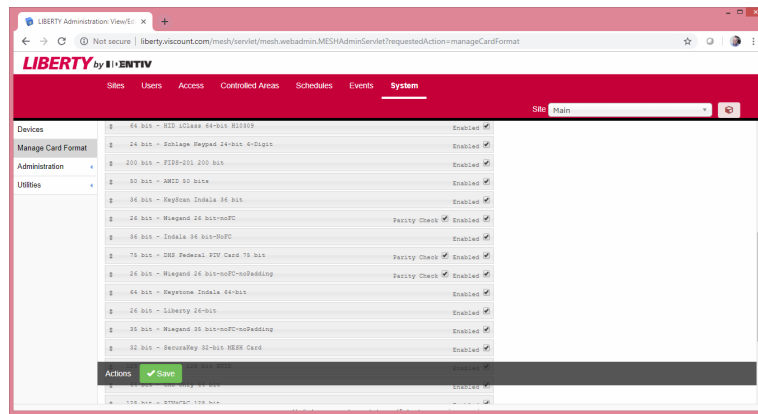
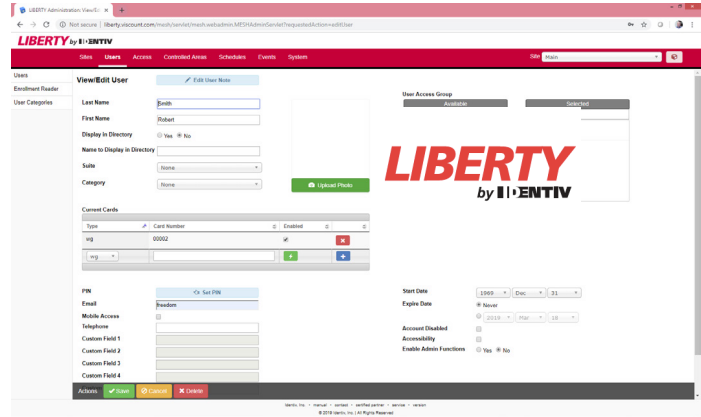


### Liberty Encryption Bridge

- Single and dual reader support
- Supervised inputs
- Relay outputs and elevator control

### Multiple reader and credential options:

- Barcode
- Biometric
- Mag-stripe
- Proximity
- Smart card
- Wiegand swipe



### Specifications:

PRODUCT	IMAGE	PART NUMBER	DESCRIPTION
Single Reader Liberty Encryption Bridge		FR-50-80-1	One (1) Wiegand connect reader, two (2) supervised inputs, one (1) dry contact relay at 12/24VDC, with PoE (802.af) class 0 providing power to device at a maximum of 300mA or 12VDC
Dual Reader Liberty Encryption Bridge		FR-50-80-2	Two (2) Wiegand connect reader, four (4) supervised inputs, two (2) dry contact relays at 12/24VDC, with PoE (802.af) class 0 providing power to device at a maximum of 300mA or 12VDC
Liberty Input/Output Bridge		FR-50-80-I/O	12 inputs, four (4) supervised, and two (2) dry contact relay outputs
LIBERTY Elevator Control / Output Bridge		FR-50-80-I/O	24 dry contact relay outputs that can be configured to manage output control or elevator access, two (2) Wiegand readers using the Liberty Wiegand to RS-485 device (50-80-W485) connected to the readers in the elevator cabs

Liberty Cube	Liberty Cube 9	Liberty Cube 16	Liberty Cube 32
Part Number	FR-50-80-LBTY08	FR-50-80-LBTY16	FR-50-80-LBTY32
Card Readers Supported	8	16	32
Processor	Intel® Quad-core Celeron™ 2.00 GHz		
RAM	8 GB DDR3		
Storage Capacity	32 GB solid state		
Operating System	Linux		
Network Support	Single port gigabit Ethernet		
Mounting Options	One rack ear kit and wall mount kit included		
Physical Dimensions	1.75 x 8 x 8		
Power	DC12V with 60W AC adapter		
Certifications	FCC, CE, UL, RoHS		
Operating Temperature	0° to 55° C (32° to 131° F)		
Number of Users (Card Holders)	Unlimited**		
Number of Groups	Unlimited**		
Number of Schedules	Unlimited**		
Number of Access Levels	Unlimited**		
Maximum Cards Number Size	1024 bits		
Historical Transactions	Up to 1 million**		
Card Type Supported (Reader Dependent)	Barcode/QR, biometric, mag-stripe, proximity, smart card		

Liberty ENCRYPTION BRIDGE	SINGLE READER BRIDGE	DUAL READER BRIDGE	I/O BRIDGE	OUTPUT BRIDGE
Part Number	FR-50-80-1	FR-50-80-2	FR-50-80-I/O	FR-50-80-E
Reader Inputs	1	2	NA	2*
Inputs (Supervised)	2 (2)	4 (4)	12 (4)	-

\* Supports two (2) Wiegand output card readers over RS-485 through the elevator travelling cable using a Liberty Wiegand to RS-485 device (FR-50-80-W485) connected to the readers in the elevator cab.

\*\* Capacities and historical transaction volume contingent upon available storage space on the Liberty Cube.

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