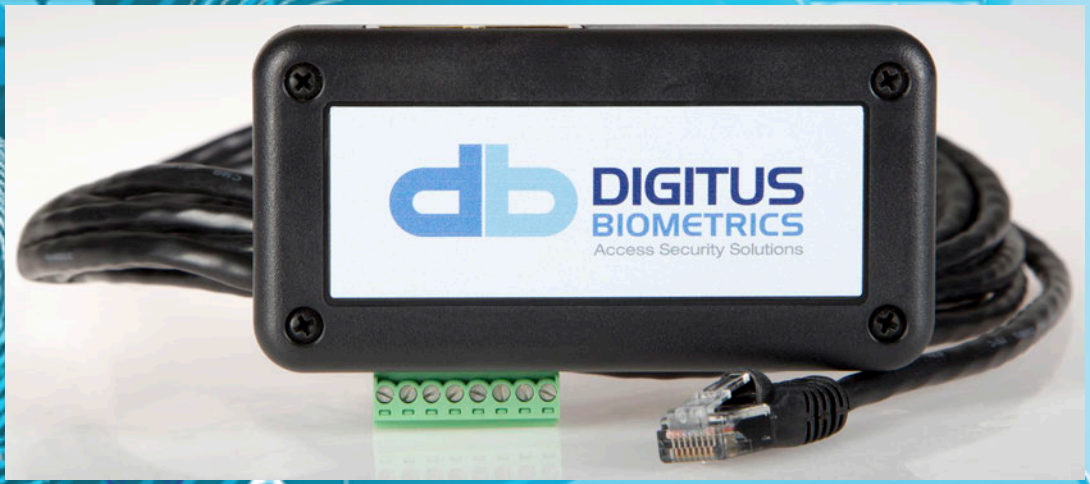
About Bus

EMKA (UK) LTD



ABOUT BUS

Advanced Technology Delivers Cabinet Security with a Wide Range of Authentication Options

The Bus access control system saves costs by eliminating the need for a controller, network point and power supply at each cabinet. A sophisticated bus architecture distributes fail-safe signals and electrical power from a single controller to up to 64 cabinet door locks. The Bus offers multiple options for authentication: choose where the authentication takes place, either at each cabinet door or at the end of a row of cabinets. For cabinet level authentication, choose between fingerprint or RFID card. For end of row authentication, the user enters which cabinet door they are attempting to access, then inputs any combination of PIN, RFID and fingerprint to authenticate.

KEY PRODUCT FEATURES

Bus architecture principles allow the Bus biometric access control platform to provide power and an Ethernet connection for as many as 64 locks on cabinet doors. Furthermore, the system doesn't depend exclusively on biometrics – you can also use RFID technology, keycards, iCard devices and/or PIN identification to verify a user's authority to unlock a cabinet.

- 100% secure access control for server cabinets
- Time-tested technology in a reduced footprint
- Flexibility to choose between fingerprint or RFID card access
- As-needed cabinet access deters data/equipment theft
- Centralized administration of up to thousands of units
- Protection against obsolescence via Infinity Maintenance Program

TECHNICAL SPECIFICATIONS

AUTHENTICATION OPTIONS:

- At the cabinet
  - Independent biometric or card locks on the front and back doors of a cabinet
  - Biometric or card lock on the front door simultaneously unlocks front and back doors
- At the end of a row of cabinets, the Enline unit allows a user to specify which cabinet they are attempting to access before providing up to three credentials to authenticate.

ENLINE FEATURES

- Finger Sensor: Capacitive n
- LCD 2 x 16 Character Lines
- LED Indication: Tri-Color
- Keypad: 12-Key Steel Matrix
- HID iClass 13.56 MHz Smartcard Reader or HID Compatible 125 KHz Proximity Reader

POWER AND DRAW:

- Input Power: 48V DC, 4.6A
- Current Draw (with no Bus devices): 20 mA @ 48V DC
- Bus Power: 48V, Maximum Current 4.167A
- Operative Temperature: 32°F-158°F (0°C-70)

ENROLLMENT:

- Enrollment Time: < 5 Seconds
- Identification Time (1-1): < 1 second
- Identification Time (1-N): < 1 second/1,000 users • EER Rate: <0.1%
- Security Levels: 3

MEMORY STORAGE:

- User Capacity: 9,500
- Fingerprint Template Size: 384 Bytes
- Log Capacity: 60,000 Events
- Finger Sensor Type: Capacitive with Fake Finger Detection
- CardLock Reader Type: 125KHz HID Compatible
- iClass Card Reader: 13.56 MHz HID Compatible

ABOUT BUS (CONTINUED)

Advanced Technology Delivers Cabinet Security with a Wide Range of Authentication Options

TECHNICAL SPECIFICATIONS

ARCHITECTURE:

- Single Ethernet Connection to Bus Controller
- Single 48V Power Supply to Bus Controller
- Bus Controller Provides Power and Data Signals to All Devices
- Control 64 Doors from a Single Bus Controller

GENERAL FEATURES:

- Managed with Digitus' DAS'SQL Software
- Indisputable Audit Trail
- One-Click Lock-Down of System
- Restrict Access Times
- Duress Activated Alert (Fingerprint Door Locks Only)
- Anti-Tamper Security
- Forced/Propped Door Detection

DIMENSIONS:

Bus Controller

- Dimensions: W7 1/2 x D5 x H1 1/4

BioLock

- Fits most 25 x 150 mm openings

CardLock

- Fits most 25 x 150 mm openings

iCardLock

- Fits most 25 x 150 mm openings

ELock

- Fits most 25 x 150 mm openings

ENLINE PRODUCT DETAILS

The Bus system allows authentication to take place at either each cabinet or at the end of a row of cabinets. If end of row authentication is preferred, at least one Enline reader is required. The Enline reader allows a user to specify which cabinet they are attempting to access by identifying the cabinet by row/ cabinet/ door number. Once a valid cabinet has been entered, the user must then authenticate be presenting the required credentials, PIN/RFID card/fingerprint. If the credentials authenticate and the user has access to the specified cabinet, the cabinet door will unlock. The utilization of Enline units on any Bus system is very flexible. It's possible to have a reader installed at both ends of a single row of cabinets, or to have a single Enline reader control multiple rows. The end of row authentication method can be used in conjunction with the Elock or will work with existing electromechanical cabinet locks.

PART NUMBER:	DETAILS:
ENLINE-2	Bus End-of-row reader with fingerprint and PIN
ENLINE-3i	Bus End-of-row reader with fingerprint, PIN, and HID iClass 13.56 MHz SmartCard
ENLINE-3p	Bus End-of-row reader with fingerprint, Pin, and HID compatible 125 KHz Proximity Card

QUICK GUIDE: BUS CONFIGURATION

BUS CONTROLLER PRODUCT DETAILS

BUS-CTRL: At least one Bus Controller is required for each Bus system. A Bus Controller can control up to a combined total of 32 cabinets + end-of-row readers. The Bus Controller provides power and control for all devices on the Bus. The Bus Controller connects to the network and uses just a single IP address per bus system. No local power or network connections are needed at each cabinet.

BUS CABINET OPTIONS

Part Number	Configuration	Bus Remote Node	BioLock	ELock	CardLock	iCardLock	DualLock	MultiCardLock-HF	MultiCardLock-HFLF
	BUS with:								
NODE-B	Cabinet Node w/1 BioLock	X	X						
NODE-BE	Cabinet Node w/1 BioLock + 1 ELock	X	X	X					
NODE-BB	Cabinet Node w/2 BioLocks	X	XX						
NODE-C	Cabinet Node w/1 CardLock	X			X				
NODE-CE	Cabinet Node w/1 CardLock + 1 ELock	X		X	X				
NODE-CC	Cabinet Node w/2 CardLocks	X			XX				
NODE-iC	Cabinet Node w/1 iCardLock	X				X			
NODE-iCE	1 iCardLock + 1 Elock	X		X		X			
NODE-iCC	2 iCardLocks	X				XX			
NODE-E	1 ELock	X		X					
NODE-EE	2 ELocks	X		XX					
NODE-D	Cabinet Node w/1 DualLock	X					X		
NODE-DE	Cabinet Node w/1 DualLock and 1 ELock Swing Handle	X		X			X		
NODE-DD	Cabinet Node w/2 DualLocks	X					XX		
NODE-H	Cabinet Node w/1 MultiCardLock-HF	X						X	
NODE-HE	Cabinet Node w/1 MultiCardLock-HF + 1 ELock Swing Handle	X		X				X	
NODE-HH	Cabinet Node w/2 MultiCardLock-HFs	X						XX	
NODE-L	Cabinet Node w/1 MultiCardLock-HFLF	X							X
NODE-LE	Cabinet Node w/1 MultiCardLock-HFLF + 1 ELock Swing Handle	X		X					X
NODE-LL	Cabinet Node w/2 MultiCardLock-HFLFs	X							XX

QUICK GUIDE: BUS CONFIGURATION

BUS ARCHITECTURE

Bus Components