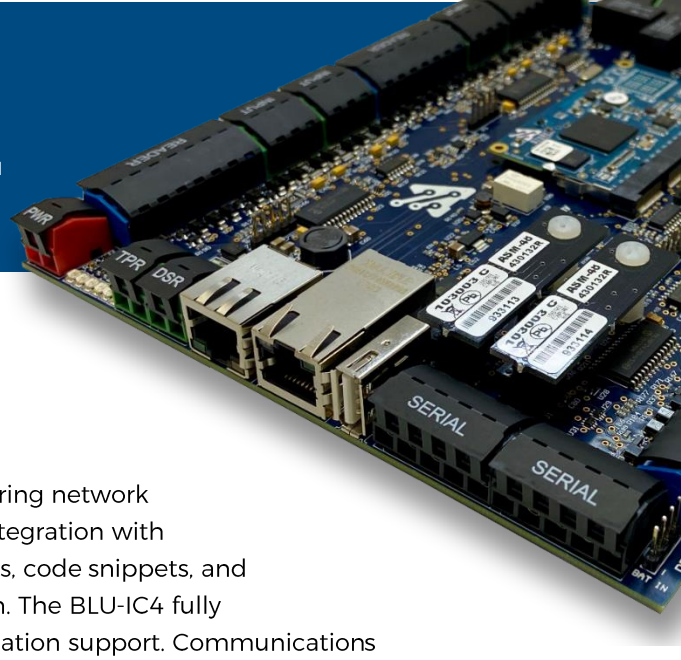
BLU-IC4



Azure Access Technology BLU-IC4
High-Speed, 4-Reader Network Controller
(4 Reader Ports, 16 Supervised Inputs, 8 Outputs)

The high-performance BLU-IC4 is an open-hardware architecture, clustering network controller that fully supports up to four doors. The BLU-IC4 is open for integration with software solutions via intuitive SDKs (across multiple languages). Tutorials, code snippets, and open-source example applications are available to accelerate integration. The BLU-IC4 fully leverages the embedded Linux™ OS to offer features like 3rd party application support. Communications are encrypted end-to-end (Host to reader), firmware is encrypted, and user certificates are supported.

Notable Features

- **OPEN HARDWARE PLATFORM**
  - SDK allows for hardware integration into any cloud or on-site Host software
- **EMBEDDED LINUX™ OS**
- **HOST-TO-READER ENCRYPTION**
  - All serial and network communications can be encrypted
- **FULLY CONFIGURABLE HARDWARE INTERFACES**
  - Onboard interfaces support 2 doors using TTL or RS485 (OSDP) readers, or up to 4 doors using OSDP readers with extra licenses
- **RAPID DOWNLOAD SPEEDS**
  - Performance of up to 10K cards per second
- **BIOMETRIC TEMPLATES STORED ONBOARD**

Competitive Edge

- **NETWORK CLUSTERING**
  - Controller-to-controller communications for features like shared anti-passback and improved Host connection performance
- **OEM / 3rd-PARTY DEVELOPED & INSTALLED APPS**
  - User-developed, user-deployed, and user-maintained applications that run on the controller in a safe, containerized environment
- **ASYNCHRONOUS COMMUNICATIONS**
  - Events are sent to the host in real time, without polling
- **SCRIPTING & INTERNAL VARIABLES**
  - Without modifying firmware, users can create custom logic to meet specific system function requirements
- **COST-EFFECTIVE EXPANSION**
  - Connect up to 16 OSDP readers to a controller with inexpensive upgrade licenses while reducing hardware costs
- **INDUSTRIAL OPERATING TEMPERATURE (-40°C to +85°C)**

Security

- OpenSSL
- TLSv1.3 with TLS Server/Peer certificate checking
- AES256-SHA256
- OSDP Secure Channel
- FIPS 201-2
- SSCPv2; Meets ANSSI encryption requirements
- CAC
- TWIC
- Firmware upgrades are signed and encrypted

Access Control

- Anti-Passback
- Threat levels
- Use Limits
- N man rule
- Occupancy Management
- Visitors and Escorts
- Elevator Control (Up to 128 floors)
- Host-Controlled Access Request
- Duress Code
- Keypad with flexible pin lengths
- Supported reader types:
  - OSDP
  - Wiegand
  - Clock & Data
  - SSCPv2
  - FIPS 201 PKI-based card and legacy types
  - Biometric

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AZURE BLU-IC4

POWER
- Input Power (VIN):
  - 12-24VDC; 500mA MAX current
- Reader Port output power:
  - VIN passthrough with 500mA MAX per port
- USB 5VDC; 500mA MAX current
- Onboard power supervision with backup power
  - Events and RTC maintained through power failure

ONBOARD HARDWARE INTERFACES
- 4 TTL (Wiegand/Clock & Data) Reader Ports
  - Open-collector Buzzer output
  - Supports single-wire and two-wire LED control
- 16 Supervised or Unsupervised Inputs
  - Configurable supervision values (12 pre-defined)
  - High-speed input scanning with filtering/noise suppression to eliminate false alarms
  - High-precision analog ICs for stability in noisy environments
- 8 Form-C Relay Outputs
  - 2A @ 24VDC MAX rating
- 1 Unsupervised Cabinet Tamper input
- 2 Dedicated 10/100 Ethernet Ports
- 2 Downstream, RS485 Serial Com Ports
  - Multidrop up to 32 IO and/or Reader Interface panels per port
  - Up to 8 OSDP readers per port
  - 9,600 to 115,200 baud
  - 4-wire interface with 2-wire support
  - Each port can be configured for a different RS485 protocol
- USB 2.0

MEMORY CAPACITY
- Minimum Memory Specs: 512MB Flash & 256MB RAM
- Up to 1 million cards
- Up to 128 readers with standard configuration
- Configurable 100K+ Event buffer
- 300 Access Levels per controller
- 50 Access Levels per cardholder
- 127 Magnetic stripe card formats
- 127 Wiegand card formats

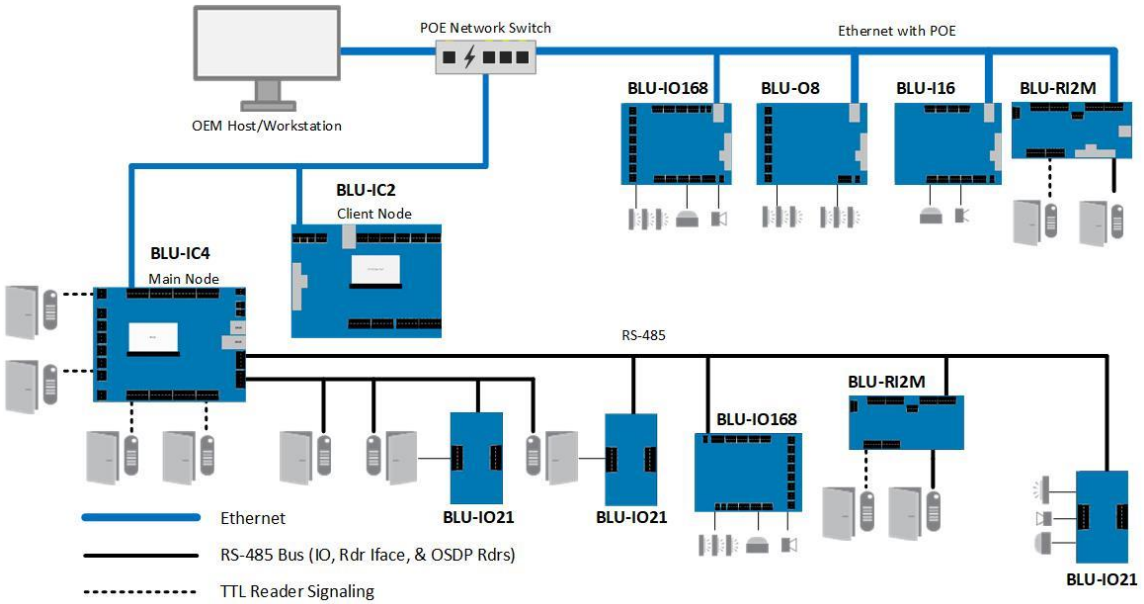
NETWORK AND HOST
- Onboard web server for board configuration
- Host-initiated or controller-initiated connections
- Up to 5 concurrent Host connections with authorized-host list
- IPv4 / IPv6 (Static or DHCP)
- SNMP

REGULATORY COMPLIANCE
- CE Compliant
  - EN 61000-6
  - EN 50130-4
- FCC Part 15 Class A
- RoHS / Pb (Lead) Free

INTUITIVE SOFTWARE INTERFACING
- Native SDK
- .NET SDK
- Java SDK
- Available tutorials, code snippets, & open-source example applications to accelerate integration

GENERAL INFORMATION
- Industrial operation temperature (-40°C to +85°C)
- Dimensions: 8in (203.2mm) x 6in (152.4mm) x 1in (25.4mm)
- Weight: 0.6 pounds (363 grams)
- SKU: **801230-*****

SYSTEM DIAGRAM



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