

AZURE BLU-IC2

Azure Access Technology BLU-IC2 High-Speed, 2-Reader Network Controller (2 Reader Ports, 8 Supervised Inputs, 4 Outputs)

The high-performance BLU-IC2 is an open-hardware architecture, clustering network controller that fully supports up to two doors. The BLU-IC2 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-IC2 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**
- **READER PORTS SUPPORT BOTH WIEGAND & OSDP READERS**

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, user-created scripts can be run locally to modify logic, create conditional actions, manage events, and manipulate interfaces
- **COST-EFFECTIVE EXPANSION**
- > Connect up to 16 OSDP readers with inexpensive upgradable licenses while reducing hardware costs
- INDUSTRIAL OPERATING TEMPERATURE (-40°C to +85°C)

PoE+ OPTION

> PoE+ coupled with the auxiliary output power port enables fully securing a door without needing a DC power supply

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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POWER

- Input Power (VIN):
 - > 12-24VDC; 350mA typical MAX current
 - > PoE+
- Auxiliary Output Power: VIN passthrough; 1A MAX current
- Reader Port output power:
 - > VIN passthrough with 500mA MAX per port
 - > 12VDC regulated with 500mA MAX per port or 600mA MAX combined
- USB 5VDC; 500mA MAX current
- Onboard power supervision with backup power
 - > Events and RTC maintained through power failure

ONBOARD HARDWARE INTERFACES

- 2 Reader Ports supporting up to 2 TTL readers or up to 8 RS485 readers
 - > Open-collector Buzzer output
 - > Supports single-wire and two-wire reader LED control when using the Buzzer output for LED control
- 8 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
- 4 Form-C Relay Outputs
 - > 2A @ 30VDC MAX rating
- > 2 Unsupervised Inputs for Cabinet Tamper & Power Failure
- 2 Network Ports
 - > 1 dedicated 10/100 Ethernet port
 - > 2nd Ethernet port possible with USB-to-Ethernet adapter
- 2 Downstream, RS485 Serial Com Ports
 - > Multidrop up to 32 IO and/or Reader Interfaces per port
 - > 9,600 to 115,200 baud
 - > 2-wire interface; half-duplex
- > Each port can be configured for a different RS485 protocol
- Micro SD card
- Micro USB 2.0 with OTG support

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

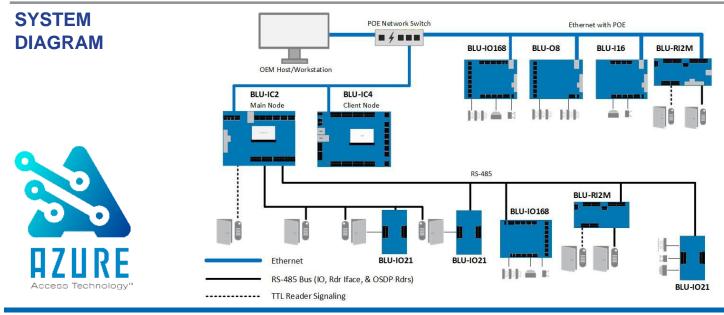
- UL 294, UL294B, UL1076, UL2610
- ULC / ORD C1076
- CE Compliant
- > EN 61000-6
- > EN 50130-4
- FCC Part 15 Class A
- RoHS / Pb (Lead) Free

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 5.5in (139.7mm) x 0.88in (22.35mm)
- Weight: 0.6 pounds (272 grams)
- > SKU: 801210-*** (add "-P" to include PoE+ option)



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