

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. Communication is encrypted end-to-end (from host down to reader), firmware is encrypted, and user certificates are supported.

Notable Features

- ▶ **OPEN HARDWARE PLATFORM**
 - > SDK allows for hardware integration into any host software solution
- ▶ **FULLY CONFIGURABLE HARDWARE INTERFACES**
 - > Onboard interfaces support 2 doors using TTL or RS485 (OSDP) readers, or up to 4 doors using RS485 readers with expanded licenses
- ▶ **HOST-TO-READER ENCRYPTION**
 - > All communications between any two points in the Azure hardware topology can be encrypted, whether network or serial
- ▶ **RAPID DOWNLOAD SPEEDS**
 - > Performance of up to 10K cards per second
- ▶ **EMBEDDED LINUX™ OS**
- ▶ **BIOMETRIC TEMPLATES STORED ONBOARD**
- ▶ **READER PORTS SUPPORT BOTH WIEGAND/CLOCK&DATA AND OSDP READERS**

Competitive Edge

- ▶ **NETWORK CLUSTERING**
 - > Unparalleled system redundancy by clustering up to 32 controllers together
- ▶ **OEM / 3rd-PARTY DEVELOPED & INSTALLED APPS**
 - > Applications can be easily developed & installed without involving the manufacturer to run in an onboard, containerized environment
- ▶ **ASYNCHRONOUS COMMUNICATIONS**
 - > Events are sent to the host in real time, without polling
- ▶ **SCRIPTING**
 - > Without modifying firmware, user-created scripts can be run locally to modify logic, create conditional actions, manage events, and manipulate interfaces
- ▶ **UPGRADABLE**
 - > Connect up to 16 OSDP readers with upgradable licenses
 - > 1GHz CPU module with upgradable memory options
- ▶ **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
- ▶ TLSv1.2 AES256-SHA256 with TLS Server/Peer certificate checking
- ▶ OSDP
- ▶ FIPS 201-2
- ▶ SSCPv2; Meets ANSSI encryption requirements
- ▶ Firmware upgrades are signed and encrypted
- ▶ CAC
- ▶ TWIC

Access Control Features

- ▶ 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

AZURE BLU-IC2

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 or 12VDC regulated
 - > 500mA MAX current each port or 600mA MAX current between both ports
- USB 5VDC; 500mA MAX current
- Onboard power supervision with backup power
 - > Memory 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
- 8 Supervised/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 Supply Fault
- 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
- 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

- Locally hosted web server for configuration and event reporting
- Up to 5 concurrent host connections with authorized-host list
- IPv4 / IPv6
- SNMP

REGULATORY COMPLIANCE

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

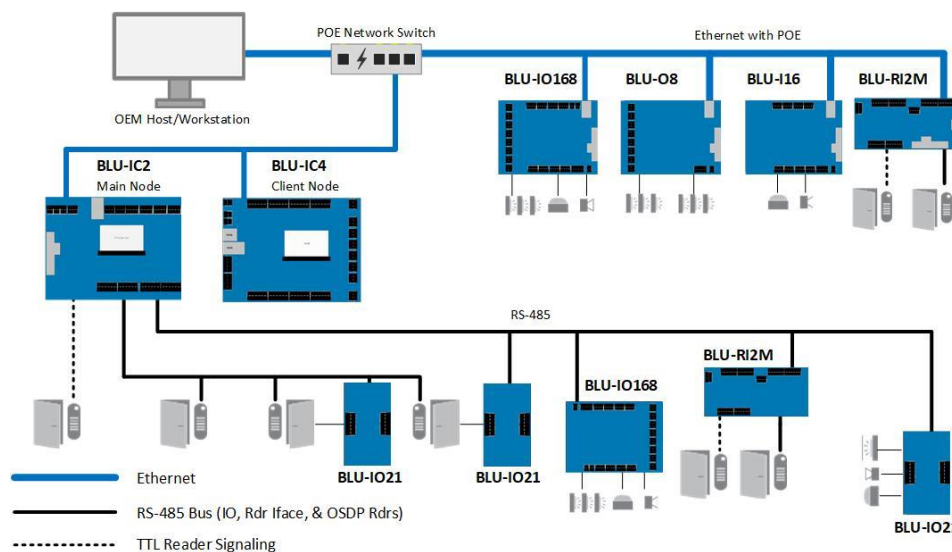
INTUITIVE SOFTWARE INTERFACING

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

GENERAL INFORMATION

- INDUSTRIAL operation and storage temperature (-40°C to +85°C)
- 5% to 95% humidity
- 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)

SYSTEM DIAGRAM



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