

## 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 3<sup>rd</sup> 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 4 doors using TTL or RS485 (OSDP) readers, or up to 8 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**

### Competitive Edge

- ▶ **NETWORK CLUSTERING**
  - > Unparalleled system redundancy by clustering up to 32 controllers together
- ▶ **OEM / 3<sup>rd</sup>-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)**

### 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-IC4

## POWER

- Input Power (VIN):
  - > 12-28VDC; 500mA MAX current
- Reader Port output power:
  - > VIN passthrough
- USB 5VDC; 500mA MAX current
- Onboard power supervision with backup power
  - > Memory 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/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
- 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

- CE Compliant
- FCC Part 15 Class A
- RoHS / Pb (Lead) Free

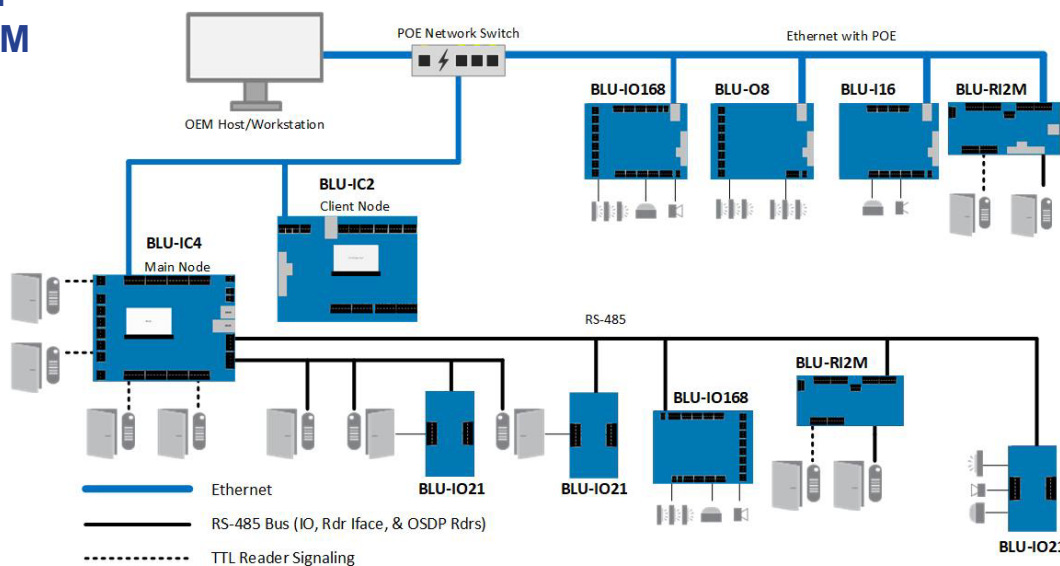
## INTUITIVE SOFTWARE INTERFACING

- 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 6in (152.4mm) x 1in (25.4mm)
- Weight: 0.6 pounds (363 grams)
- SKU: **801230**

## SYSTEM DIAGRAM



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