# ISA 122

Substation-grade OT Security Gateway with Intel Atom® Processor, 2 x Copper and 2 x Fiber Port, with 2-pair Bypass



## Main Features

- Intel Atom® x6414RE processor, 4-core
- 8GB LPDDR4 onboard
- 16GB pSLC eMMC onboard
- Dual DC (12~48V)
- 2 x 1GbE RJ45 port with 1-pair bypass
- 2 x 1GbE fiber port with 1-pair bypass
- 1 x Serial port (RS-232/422/485 programmable)
- C1D2 compliant
- IEC 61850-3 certificated

## Product Overview

NEXCOM ISA 122 is powered by Intel Atom® quad-core processor and features a substation-grade design certified to IEC 61850-3 and IEEE 1613, delivering robust OT security for harsh utility environments. Equipped with four Ethernet ports (two fiber and two copper), each supporting bypass, ISA 122 ensures uninterrupted connectivity during power or system failures. Its rugged, fanless architecture provides reliable operation for ICS/SCADA networks, making it an ideal industrial firewall, gateway, or UTM platform for mission-critical substation deployments.

## Specifications

### Processor

- Intel Atom® x6414RE, TDP 9W, 1.5 GHz

### System Capabilities

- TPM 2.0
- C1D2 compliant
- NEXBOOT® (dual-layer OS failover)
- NEXLOCK® (I/O access protection)*

### Memory

- Onboard LPDDR4 8B

### Storage

- Onboard pSLC eMMC 16GB

### I/O Interface Front

- Reset button
- Slider switch: NEXBOOT®
- LED: PWR/∞/SYS/BP0/BP1
- 2 x 1GbE RJ45 port with 1-pair bypass (default: standard NIC mode)
- 2 x 1GbE fiber port with 1-pair bypass (default: standard NIC mode)
- 1 x RJ45 console port
- 1 x USB 3.2 Gen 1, Type-A

### I/O Interface Side

- 1 x Ground screw
- 1 x Serial port (RS-232/422/485 programmable)

### Power Supply

- Dual DC (12~48V)

### Mechanical

- Chassis dimension: 50 mm (W) x 115 mm (D) x 205 mm (H)
- Package dimension: 279 mm (W) x 212 mm (D) x 163 mm (H)
- Net weight: 1.5 kg
- Gross weight: 1.97 kg

### Environment

- Ambient with air flow: -40°C~70°C
- Storage temperature: -40°C~85°C
- Relative humidity: 5%~95% non-condensin

### Certifications

- CE/FCC Class A
- IEC 61850-3
- IEEE 1613

## Ordering Information

- **ISA 122 (P/N: 10L10012200X0)**
  Intel Atom® processor x6414RE, 4-core, 8GB LPDDR4, 16GB pSLC eMMC, 2 x copper and 2 x fiber port, with 2-pair bypass (default: standard NIC mode)

* To enable the NEXLOCK (I/O access protection) feature, please notify your NEXCOM account manager when placing your order.



We reserve the right to change specifications and product descriptions at any time without prior notice.

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