ISA 140

Fanless Industrial Security Appliance in a Compact DIN Rail Form Factor with Intel Atom® Processor and 6 x 1GbE RJ45 Ports



Main Features

- Intel Atom® x6212RE, 2 cores, 6W
- 1 x DDR4 SO-DIMM slot, supports up to 16GB 2400/2667/3200 MT/s
- Storage eMMC up to 8GB for OS
- Storage M.2 Key B slot, supports 2242 for data storage
- 6 x 1GbE RJ45 with 1-pair bypass (default: standard NIC mode)
- 1 x M.2 Key B 3042 with USB signal
- 1 x micro-SIM slot
- 1 x Minicard full size with PCIe & USB signal
- Support OOB

Product Overview

NEXCOM's ISA 140, powered by Intel Atom® dual-core processor (formerly: Elkhart Lake), is a compact, fanless industrial security appliance equipped with six 1GbE ports for network connectivity. It also supports seamless Wi-Fi/LTE connectivity and OOB remote management, and operates in settings with wide temperature ranges. The compact DIN rail design allows IT personnel to easily embed ISA 140 in existing network infrastructure without affecting manufacturing equipment productivity.

Specifications

Processor

- Intel Atom® x6212RE, 6W

System Capabilities

- TPM 2.0

Memory

- 1 x DDR4 3200 SO-DIMM, up to 16GB

Storage

- eMMC, up to 8GB (OS only)
- 1 x M.2 Key B 2242 (for data)

I/O Interface External

- 6 x 1GbE RJ45 with 1-pair bypass (default: standard NIC mode)
  - 1 port with OOB support
- 1 x micro SIM slot
- LED indicator for bypass/ LTE/ Wi-Fi/SYS/SSD/PWR
- 1 x HDMI®
- Power & reset buttons
- 1 x RJ45 for console
- Dual terminal block
- 4 x SMA antenna connector
- 2 x USB 3.2 port

I/O Interface Internal

- 1 x DDR4 SO-DIMM slot
- 1 x M.2 Key B 2242 slot
- 1 x M.2 Key B 3042 slot
- 1 x Minicard full size slot

Power Supply

- Dual DC (9~36V DC)

Mechanical

- System dimension: 165 mm (W) x 61.7 mm (D) x 129.25 mm (H)
- Package dimension: 305 mm (W) x 245 mm (D) x 195 mm (H)
- Net weight: 1.3 kg
- Gross weight: 2.19 kg

Environment

- Operating temperature: -30°C~70°C
  - Up to 70°C without M.2 SSD and wireless modules
  - Up to 60°C with M.2 SSD
  - Up to 40°C with LTE and Wi-Fi modules
- Storage temperature: -40°C~85°C
- Relative Humidity: 5%~95% (non-condensing)

Certificationss

- CE/FCC Class A

Ordering Information

- **ISA 140 (P/N: 10L10014000X0)**
  Intel Atom® x6212RE processor (formerly: Elkhart Lake), with 6 x 1GbE RJ45 with 1-pair bypass (default: standard NIC mode)

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

Last update: 11/12/2025