ISA 142

Fanless High-density Security Gateway and Switch for OT Network Security, with Intel Atom® Processor and up to 16 switch ports

OOB MNGT | Wide Tem. Range | Switch | Fanless

Main Features

- Intel Atom® x6413E processor SoC, BGA type
- 1 x SODIMM DDR4 3200 8GB module
- 1 x 40GB pSLC M.2 2242 SSD module
- 1 x RJ45 console port
- 2 x USB 3.0
- 3 x 1GbE RJ45 with 1 combo port
- Up to 16 switch ports
- Dual DC (9~36VDC)
- Supports OOB

Product Overview

The ISA 142 is a powerful OT security appliance with switch capabilities to support large-scale deployments and delay-sensitive communication between critical devices. Powered by a quad-core Atom® x6413E processor, it is built to meet the dynamic needs of industrial environments, including working within higher temperatures. ISA 142 incorporates three 1GbE ports while also boasting an expanded port count, delivering an additional sixteen switch ports for enhanced connectivity and scalability. It also leverages Time-Sensitive Networking (TSN) technology to transmit data packets predictably and reliably, without delays or variations in delivery times.

Specifications

Main Board
- Intel Atom® x6413E processor, 4 cores, 1.5M cache, 1.50 GHz
- TPM 2.0 onboard

Main Memory
- 1 x DDR4 SODIMM ECC or non ECC 3200 MT/s 8GB module

Storage
- 1 x 16GB eMMC
- 1 x 40G pSLC M.2 2242 SSD module

Interface External
- Power & reset buttons
- 1 x RJ45 console port
- 2 x USB 3.0 ports
- 3 x 1GbE RJ45 ports
  - with 1 combo port
- 16 x Switch ports with 2G upstream throughput

Interface Internal
- 1 x DDR4 SODIMM slot
- 1 x M.2 2242 Key B slot

Power
- Dual terminal block for DC in support 9-36V
  - 1 x Power input on main board
  - 1 x Power input on switch board

Dimension and Weight
- System size: 165 x 86.5 x 132.74 mm
- Packaging size: 300 x 242 x 202 mm
- Weight without packaging: 2.415kg
- Weight with packaging: 3.085kg

Environment
- Operating temperature: -20°C~60°C
- Storage temperature: -40°C~80°C
- Relative humidity: 0%~95% non-condensin

Certifications
- CE/FCC Class A

Ordering Information

- **ISA 142 (P/N: 10L10014200X0)**
  Intel Atom® x6413E processor, BGA type, 4 cores, 1 x SODIMM 8GB memory module, 3 x 1GbE RJ45 ports with 1 combo port and 16 x switch ports with 2G upstream throughput