

NIC/PCIe up to 1Gb RJ45 x 1 Single (I210T1)

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The Intel Ethernet Server Adapter I210 builds on Intel's history of excellence in Ethernet products. Intel continues its market leadership with this PCIe GbE network adapter. Based on the Intel Ethernet Controller I210, this adapter represents the next step in the Gigabit Ethernet (GbE) networking evolution for the enterprise and data center offering Audio-Video-Bridging (AVB) support, along with power management technologies such as Energy Efficient Ethernet (EEE) and DMA Coalescing (DMAC).

Key Selling Points

- Low-halogen single-port PCI-Express 10/100/1000 Ethernet adapter
- Power management features including Energy Efficient Ethernet (EEE), DMA Coalescing, ultra-compact design, and a unique ventilated bracket for increased efficiency and reduced power consumption
- IEEE 802.1Qav Audio-Video-Bridging (AVB) for tightly controlled media stream synchronization, buffering, and reservation
- High-performing design supporting PCI Express generation 2.1 2.5 GT/s
- Reliable and proven Gigabit Ethernet technology from Intel Corporation

Product Features

- Audio-Video Bridging (AVB)**
The Intel Ethernet Server Adapter I210 supports IEEE 802.1Qav Audio-Video Bridging (AVB) for customers requiring tightly controlled media stream synchronization, buffering, and reservation. The 802.1Qav is part of the AVB specification that provides a way to guarantee bounded latency and latency variation for time sensitive traffic.
- Performance optimization**
The Intel Ethernet Server Adapter I210 contains four transmit and four receive queues. These queues offer Error Correcting Memory (ECC) protection for improved data reliability. The adapter efficiently manages packets with minimum latency by combining parallel and pipelined logic architectures optimized for these independent transmit and receive queues. These queues, combined with Receive Side Scaling (RSS) and Message Signal Interrupt Extension (MSI-X) support, optimize the performance on servers with multi-core processors.
- Power Management Technologies**
Today, companies everywhere are looking for ways to decrease energy consumption across the enterprise to reduce costs and environmental impact, while at the same time solving increasingly important power density challenges. That's why Intel has introduced advanced Power Management Technologies (PMTs that enable enterprises to configure power options on the adapter and more effectively manage power consumption.
- Environmentally friendly design**
The Intel Ethernet Server Adapter I210 Family is low halogen and completely lead-free to reduce the potential for environmental impact. This, in combination with power management technologies, a unique ventilated bracket, and space-saving design make this adapter an ideal solution for compact workstations and entry-level servers.

Main specifications

Product Description	Intel Ethernet Server Adapter I210-T1 - network adapter - PCIe 2.1 - Gigabit Ethernet
Device Type	Network adapter
Form Factor	Plug-in card - low profile
Interface (Bus) Type	PCI Express 2.1 x1
PCI Specification Revision	PCIe 2.1
Ports	Gigabit Ethernet
Dimensions (WxDxH)	1.8 cm x 6.7 cm
Cabling Type	Ethernet 10Base-T, Ethernet 100Base-TX, Ethernet 1000Base-T
Data Link Protocol	10Mb LAN, 100Mb LAN, 1GbE
Data Transfer Rate	1 Gbps
Network / Transport Protocol	TCP/IP, UDP/IP
Processor	1 x Intel I210
Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1as
Manufacturer Warranty	Limited lifetime warranty

Extended specification

General

Device Type	Network adapter
Form Factor	Plug-in card - low profile
Interface (Bus) Type	PCI Express 2.1 x1

PCI Specification Revision PCIe 2.1

Expansion / Connectivity

Interfaces	1 x 1000Base-T - RJ-45
Compatible Slots	1 x PCI Express 2.1 x1 - low-profile

Manufacturer Warranty

Service & Support	Limited warranty - lifetime
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Networking

Ports	Gigabit Ethernet
Connectivity Technology	Wired
Cabling Type	Ethernet 10Base-T, Ethernet 100Base-TX, Ethernet 1000Base-T
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet
Data Transfer Rate	1 Gbps
Network / Transport Protocol	TCP/IP, UDP/IP
Status Indicators	Port transmission speed, link/activity
Features	Flow control, auto-negotiation, Jumbo Frames support
Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1as

Miscellaneous

Included Accessories	Low-profile bracket, full-height bracket
Compliant Standards	FCC Class B certified, UL, VCCI, C-Tick, BSMI, KCC

Power

Power Consumption Operational	0.81 watt
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Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	55 °C

Processor / Memory

Processor	1 x Intel I210
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Dimensions & Weight

Width	1.8 cm
Depth	6.7 cm

What's in the box

Intel Ethernet Server Adapter I210-T1
Low-profile bracket, full-height bracket

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