



PUZZLE-IN003B

Intel® Atom® C3000 Processor



Key Values of PUZZLE-IN003B



High-Density, Low-Power Designs

System with high integrated/high-density design and low TDP.



Multi-Core Scalability

Multiple product configuration options from 4–16 processing cores to scale one design across many use cases.



High-Speed I/O Configurability

Faster transmission of large data files with two 10Gb Ethernet and PCIe Gen 3, SATA and USB 3.0.



Integrated Hardware acceleration

Intel® QuickAssist Technology (Intel® QAT up to 20Gbps) to accelerate and compress cryptographic workloads.

Intel® Atom® Process C3000



Features	Intel® Atom® Process C2000	Intel® Atom® Process C3000
Intel Atom CPU	512 KB L2	2MB or 1MB L2
Process Tech	22 nm	14 nm
Cores	Up to 8	Up to 16
Memory	DDR3, DDR 3L with ECC	DDR4 with ECC
DIMMs	UDIMM, SODIMM	UDIMM, SODIMM, RDIMM
Intel QuickAssist Technology	Up to 10Gbps bulk crypto	Up to 20 Gbps crypto+ 20 Gbps Compression
Virtualization	VT-x	VT-x, VT-d

Intel® Atom® Process C3000

Intel® Quick Assist Technology

1. Support IPsec, SSL accelerating and Compression service
2. Applications : Network, Cloud, and Data center

Intel® Atom® C3000 QuickAssist Technology performance

**Intel®
QuickAssist
Technology
(QAT)**

Up to 20Gbs bulk Crypto

Up to 20kops 2k RSA Decrypts

Up to 20Gbps Compression

PUZZLE- IN003B

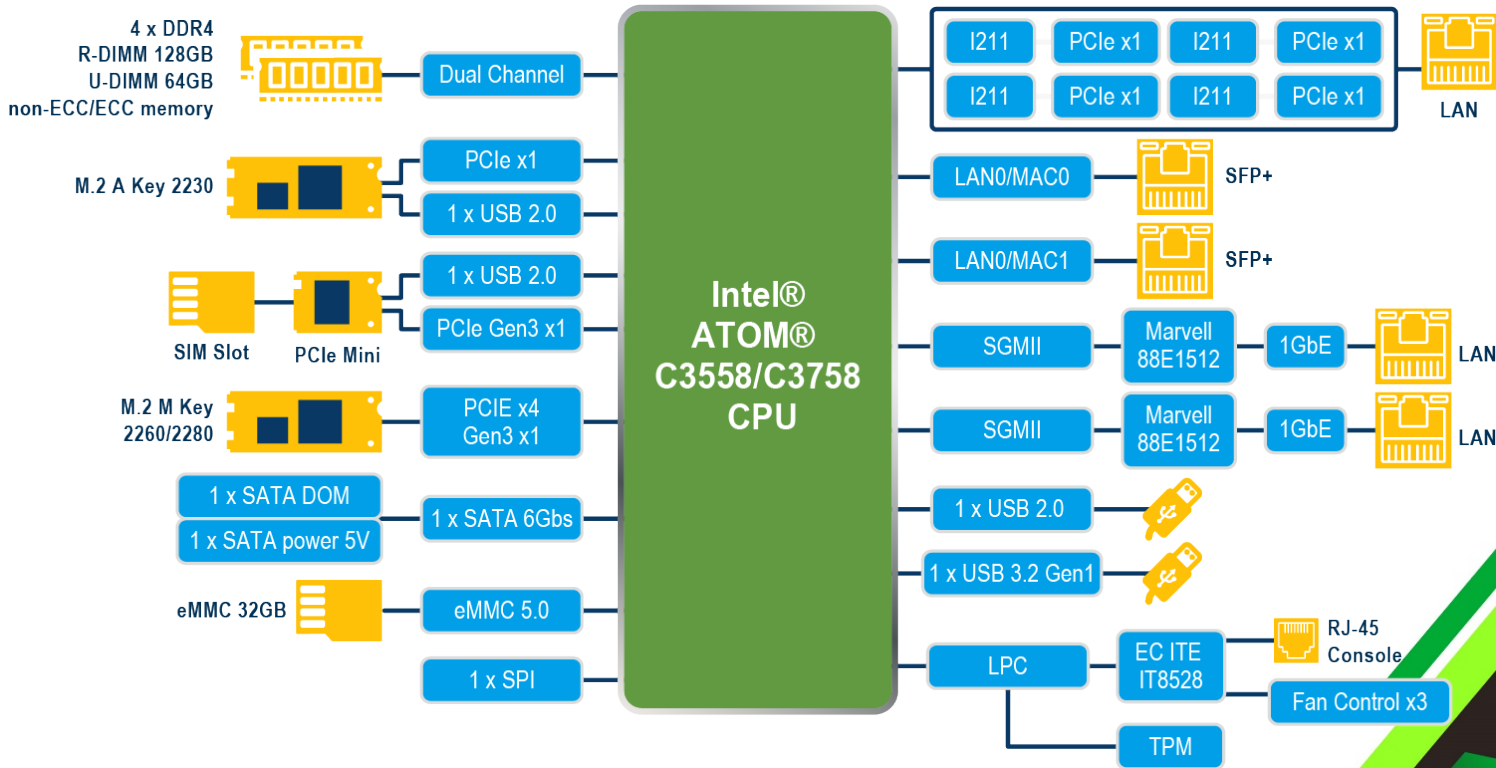
Desktop Network Appliance with Intel® Atom® Processor C3000
Processor support up to 6 x 1GbE, 2 x 10 GbE & 2 x M.2 slots, 1 x PCIe
Mini, 1 x eMMC 32GB



Features

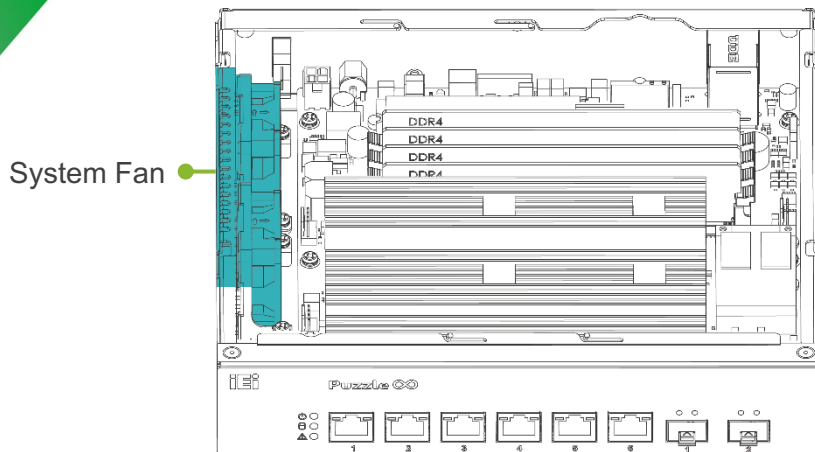
- Intel® Atom® processor C3000 processor up to 16 CPU cores
- Support 6 x 1 GbE and 2 x 10 GbE SFP+ via integrated C3558/C3758
- DDR4 2133MHz ECC or non-ECC UDIMM/R-DIMM up to 128GB
- 1 x 2230 M.2 A key (USB 2.0, PCIe x1), 1 x 2260/2280 M.2 M Key, 1 x PCIe mini (USB 2.0, PCIe x1), SIM card slot, 1 x eMMC 32GB

PUZZLE-IN003B Block Diagram

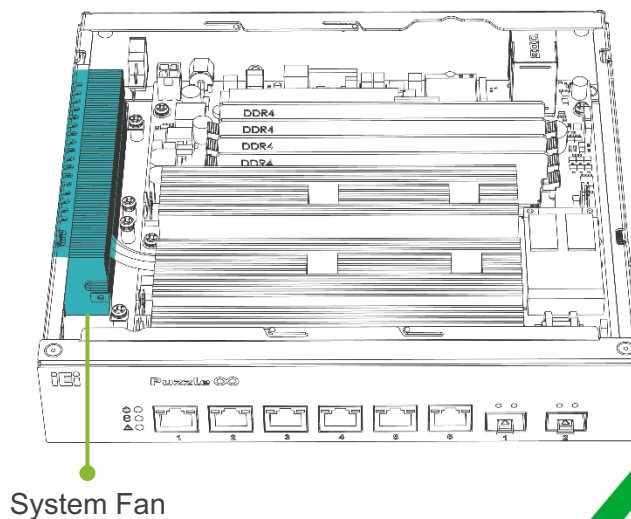


PUZZLE-IN003B System Placement

PUZZLE-IN003B-C0



PUZZLE-IN003B-C1



PUZZLE-IN003B System appearance



Power LED
Storage LED
Alert LED

Six GbE

Two 10 GbE



CONSOLE
USB 3.0
USB 2.0

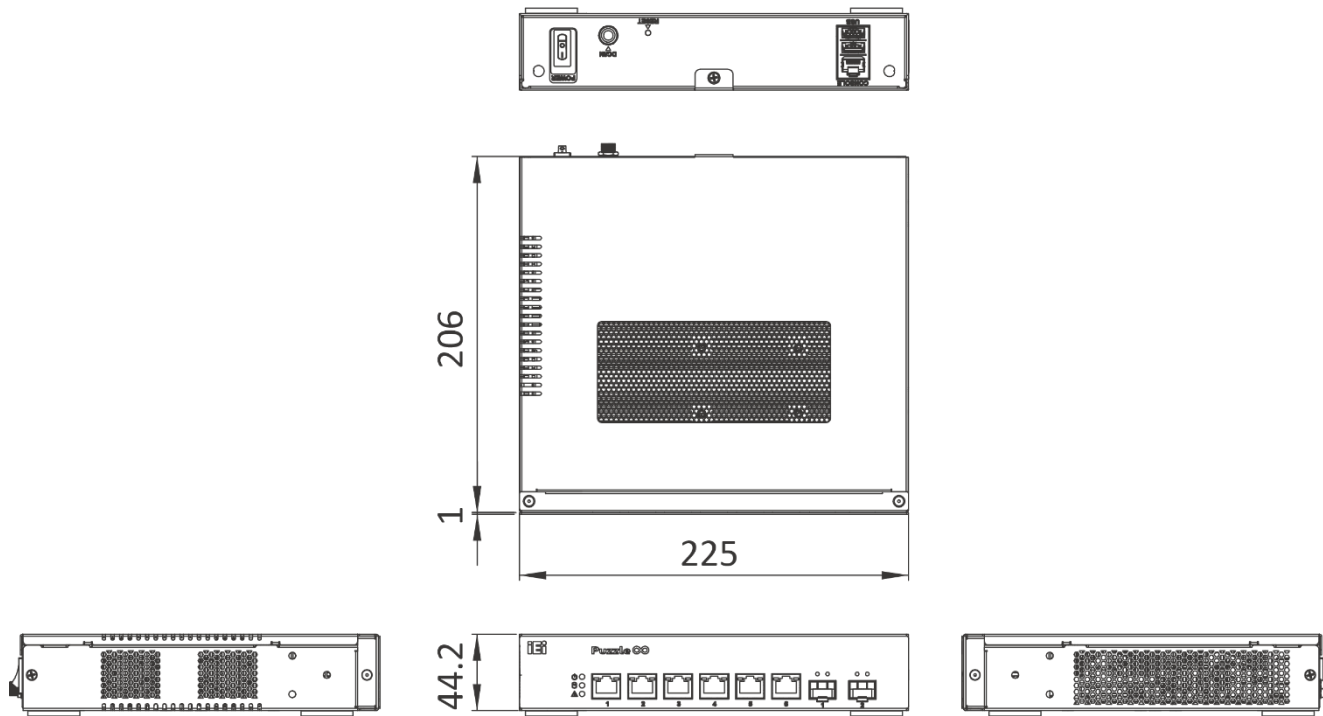
Reset

DC/IN

Power

PUZZLE-IN003B System Dimensions

Unit: mm



PUZZLE-IN003B Ordering Information



PUZZLE-IN003B-C0/8G-R10

Desktop Network Appliance with Intel® ATOM® C3758 Processor, 6 x 1GbE, 2 x 10 GbE & 2 x M.2 slots, 1 x PCIe Mini, 1 x eMMC 32GB

PUZZLE-IN003B-C1/8G-R10

Desktop Network Appliance with Intel® ATOM® C3558 Processor, 6 x 1GbE, 2 x 10 GbE & 2 x M.2 slots, 1 x PCIe Mini, 1 x eMMC 32GB

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