



PUZZLE-IN003B

Intel® Atom® C3000 Processor



Intel® Atom® Process C3000介紹



Intel® Atom®
C2000



Intel® Atom®
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

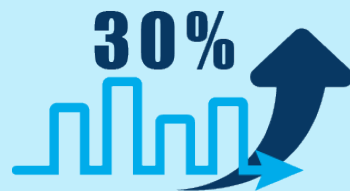
運算效能提高 2.3



儲存效能提高 4 倍



每一時脈週期可執行的
指令 (IPC) 增加
30%

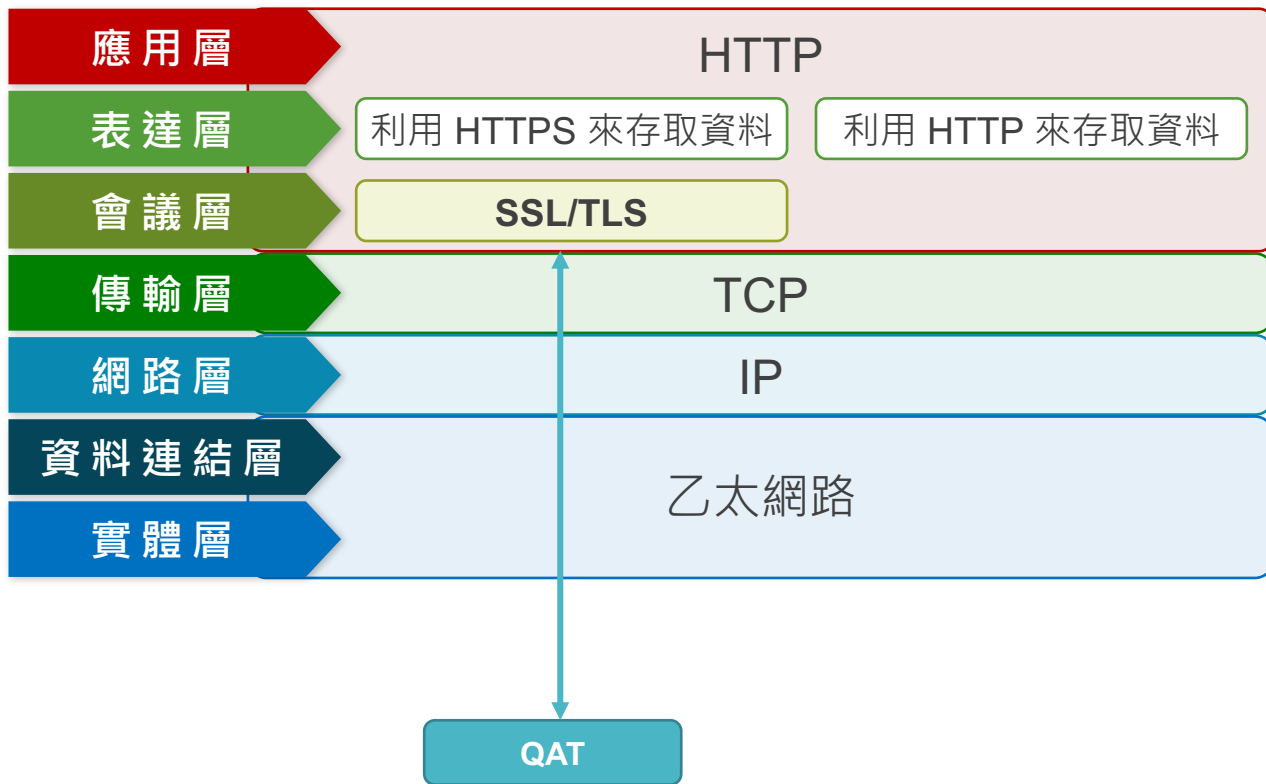


Intel® Atom® Process C3000介紹

Intel® Atom® C3000 QuickAssist Technology performance

Performance	Single Intel® Atom® C3000-NS Solution
SSL	20 Gbps
Bulk Crypto + Authentication	20 Gbps
RSA Decrypt 1024	92K Ops/sec
RSA Decrypt 2048	20K Ops/sec
ZUC/Snow3G/Kasumi F82	12Gbps
ZUC/Snow3G/Kasumi F82	12Gbps

網路通訊安全機制與協定



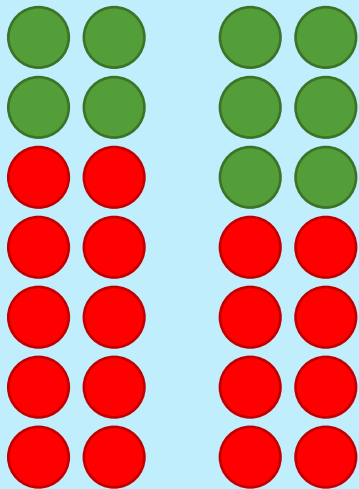
SSL/TLS

主要功能:

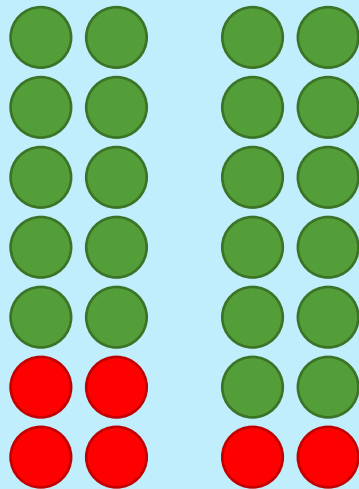
- 加密
- 竊改偵測
- 認證



沒有QAT



QAT



- 空間CPU核
- 占用的CPU核

Key Values of PUZZLE-IN003B



高密度、低功耗



核心擴充、效能增強



高彈性I/O通道



Intel QuickAssist 硬體技術

PUZZLE- IN003

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



QAT



低功耗

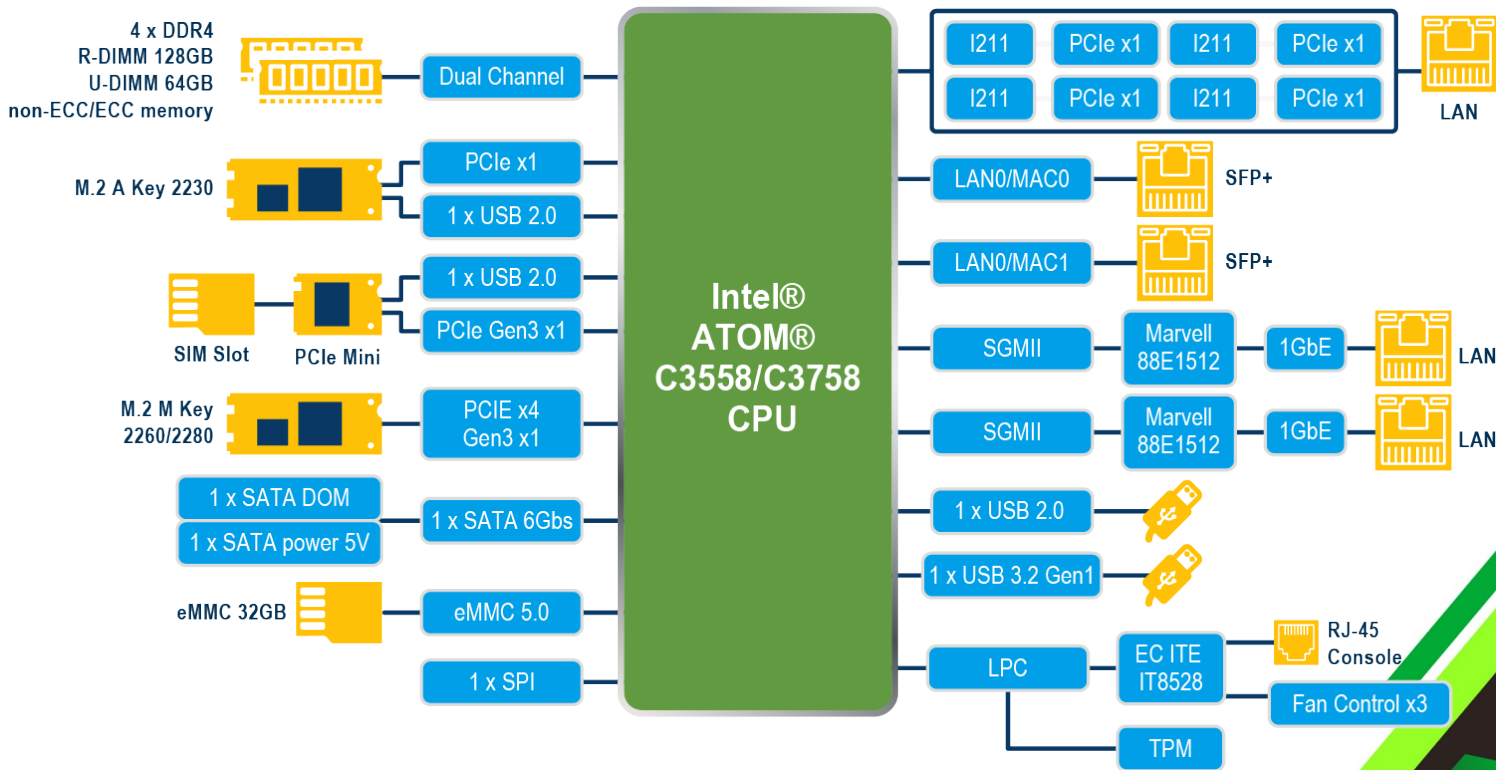


Intel管理引擎

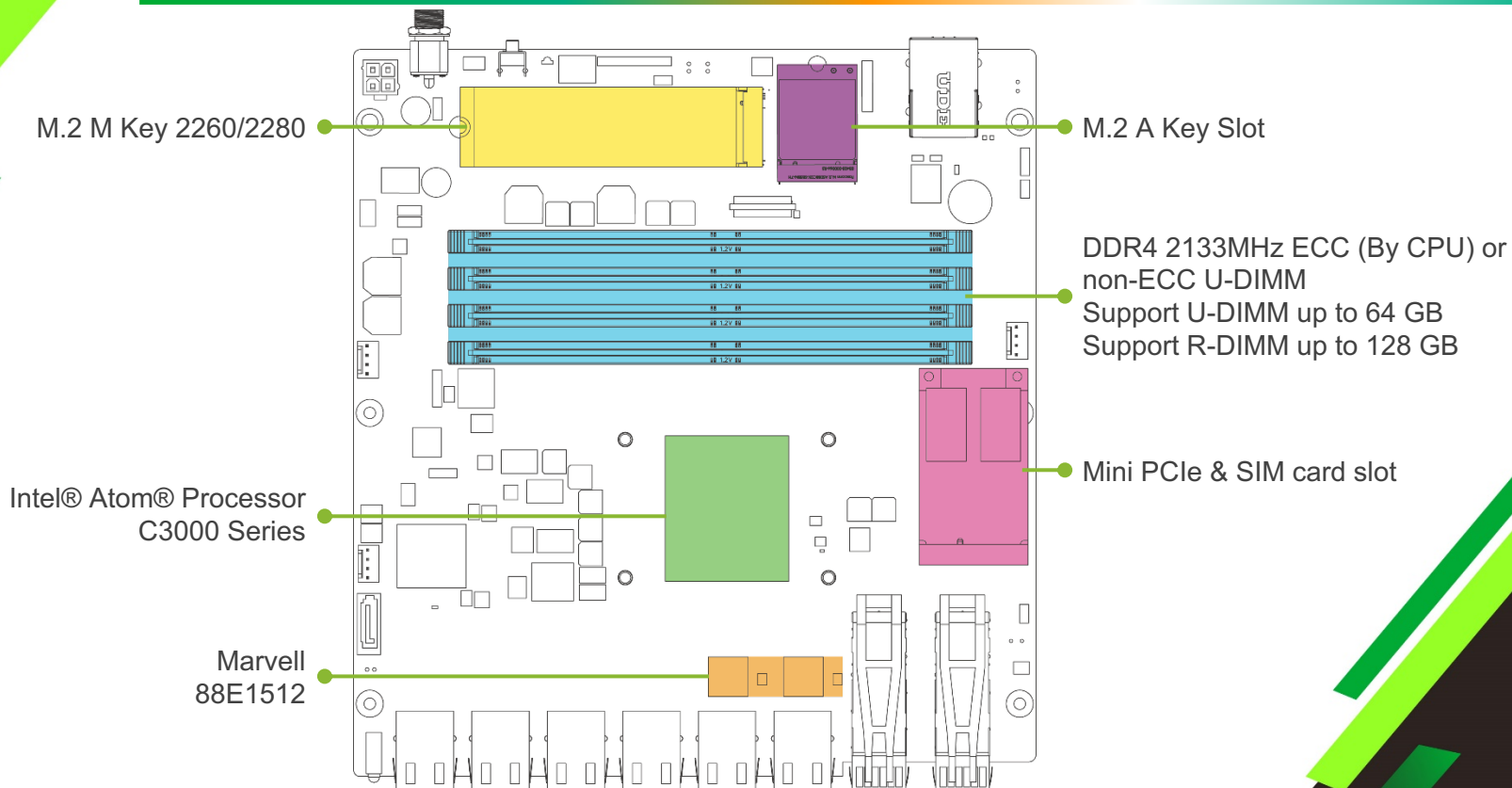
Features

- 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 up to 64 GB /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 系統方塊圖

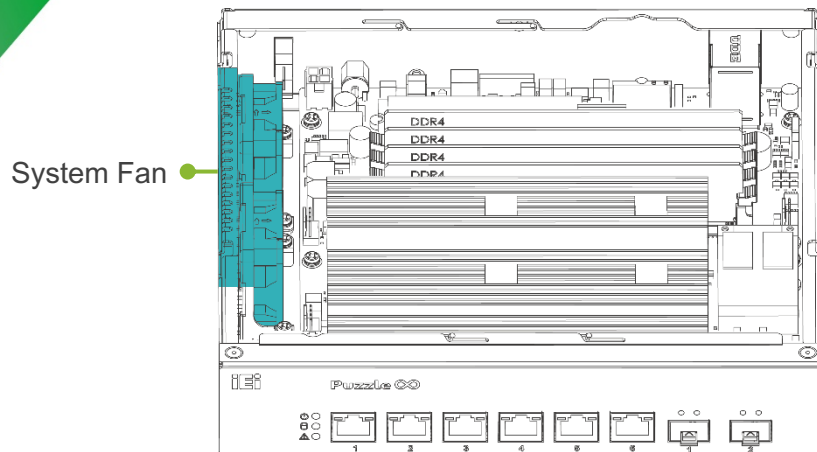


PUZZLE-IN003B 系統介紹

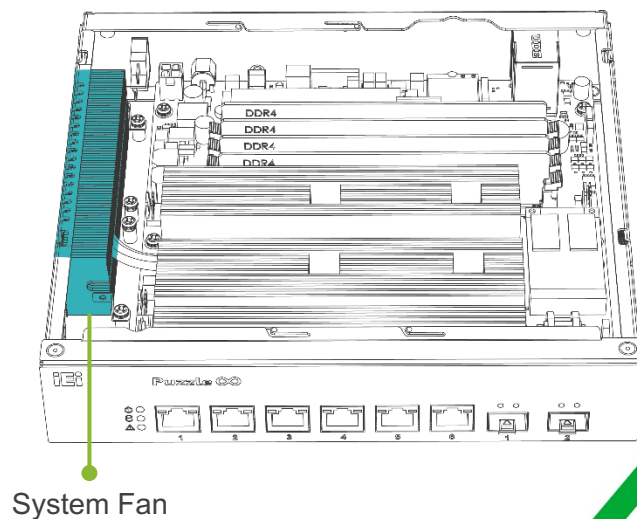


PUZZLE-IN003B 系統介紹

PUZZLE-IN003B-C0



PUZZLE-IN003B-C1



PUZZLE-IN003B 系統外觀



Power LED
Storage LED
Alert LED

Six GbE

Two 10 GbE



CONSOLE
USB 3.0
USB 2.0

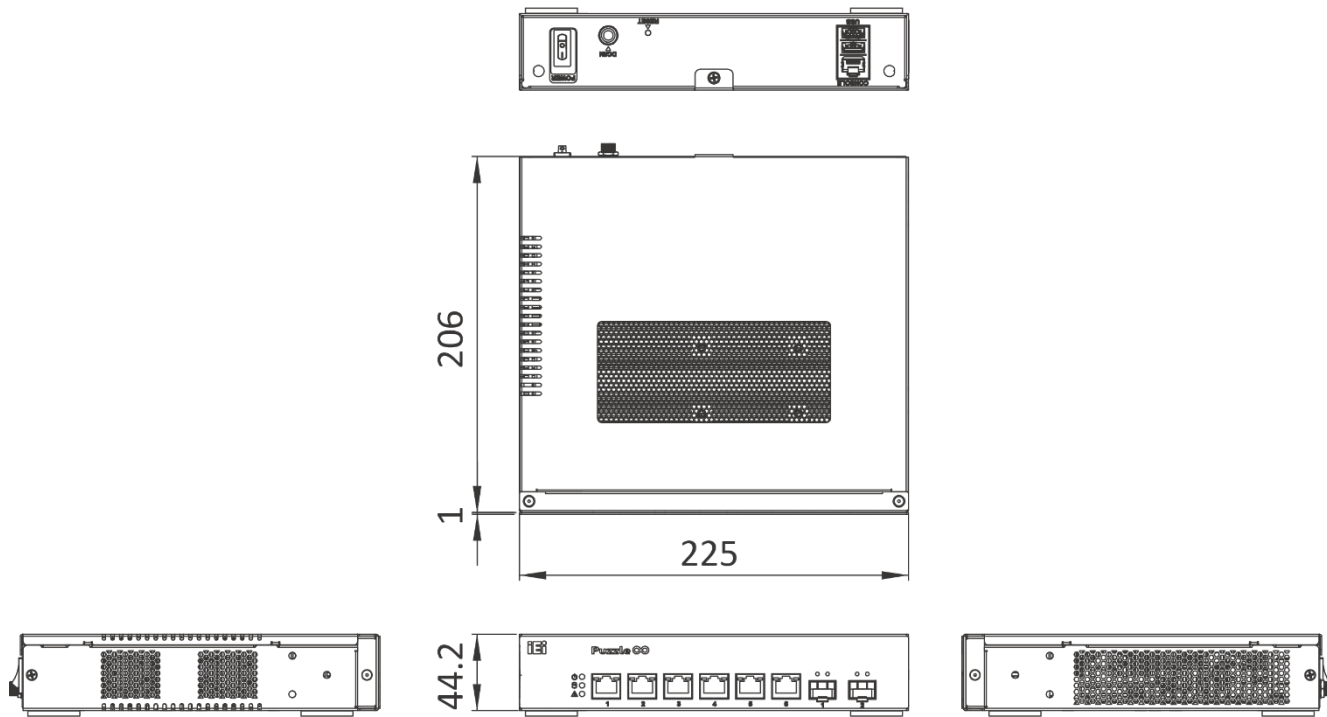
Reset

DC/IN

Power

PUZZLE-IN003B 系統尺寸

Unit: mm



PUZZLE-IN003B 訂購資訊



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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