

# PUZZLE-IN003B

**Desktop Network Appliance with Intel® Atom® Processor C3000**  
**Processor support up to 6 x 1 GbE, 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 six GbE and two 10 GbE SFP+ via integrated C3558/C3758
- DDR4 2133MHz ECC or non-ECC UDIMM / RDIMM 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

## Specifications

		PUZZLE-IN003B-C0	PUZZLE-IN003B-C1
Platform	Form Factor	Desktop	
	CPU	Intel® Atom® processor C3758 16M cache, up to 2.20 GHz	Intel® Atom® processor C3558 8M cache, up to 2.20 GHz
	Chipset	Integrated in CPU	
Memory	Memory Technology	DDR4 2133MHz ECC (By CPU) or non-ECC UDIMM, Support DDR4 RDIMM	
	Memory Capacity	UDIMM up to 64GB / RDIMM up to 128GB	
	Memory Socket	4 x 288-pin DIMM	
Network and Security	Network Acceleration and Security Function	<ul style="list-style-type: none"> <li>• Intel® AES New Instructions</li> <li>• Intel® Software Guard Extensions (Intel® SGX)</li> <li>• Intel® Memory Protection Extensions (Intel® MPX)</li> <li>• Intel® Virtualization Technology for Directed I/O (VT-d)</li> <li>• Intel® QuickAssist Technology (Intel® QAT)</li> </ul>	<ul style="list-style-type: none"> <li>• Intel® AES New Instructions</li> <li>• Intel® Software Guard Extensions (Intel® SGX)</li> <li>• Intel® Virtualization Technology for Directed I/O (VT-d)</li> <li>• Intel® QuickAssist Technology (Intel® QAT)</li> </ul>
	TPM	1 x TPM 2.0 pin header	
	Ethernet IC	1 GbE NIC: Intel® I211-AT 1 GbE PHY: Marvell 88E1512 10 GbE: Integrated in CPU	
Networking	Ethernet Port	2 x 10 GbE SFP+ 6 x 1GbE RJ-45 LAN ports	
	Network Module Slot	N/A	
	PCle Slot	N/A	
Expansion Slot	PCle Mini Card Slot	1 x PCIe Mini (USB 2.0, PCIe x1) with SIM card slot	
	M.2	1 x 2230 A key (USB 2.0, PCIe x1)	
	Storage	1 x SATA DOM + 1 x SATA power 5V 1 x M.2 M key 2260/2280	
Storage	eMMC	1 x eMMC 32GB	
	SD Card	N/A	
	USB	1 x USB 2.0 1 x USB 3.2 Gen 1	
External I/O	Console	1 x RJ-45	
	M.2	1 x 2230 A key (USB 2.0, PCIe x1)	
Internal I/O	HDMI	N/A	
	USB	N/A	
	Power Switch	1 x Power switch	
Power and Mechanical	Reset Button	1 x Reset button	
	Power Input	1 x DC jack	
	Type/Watt	12 V DC-in, 60W	
	Processor Cooling	Passive CPU heatsink	
	System Cooling	Two system fans	Fanless
	Antenna Port	2 for Wi-Fi/2 for WWAN	
	Physical and Environmental	Storage Temperature	0 ~ 40°C
Operating Temperature		0 ~ 40°C (32 ~ 104°F)	
Operating Humidity		Relative humidity: 5% ~ 90% non-condensing	
Dimensions (W x L x H) (mm)		225 x 206 x 44.2	
Weight		2 kg	
OS and Certifications	Certification	CE / FCC	
	Operating System	Linux Ubuntu 18.04	
Indicators	LCM	N/A	
	LED	3 (power, storage, alert)	

## Ordering Information

Part No.	Description
<b>PUZZLE-IN003B-C0/8G-R10</b>	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
<b>PUZZLE-IN003B-C1/8G-R10</b>	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

## Packing List

	PUZZLE-IN003B-C0/8G-R10	PUZZLE-IN003B-C1/8G-R10
Power cord	1	1
Power adapter	1	1
Rack mounting ears	2	2
Screws for rack mounting ears	6	6
USB to console cable	1	1
RS-232 to console cable	Option	Option

## Options

Item	Part No.	Description
USB to console cable	32013-004000-100-RS	ROUND CABLE; LAN CABLE; FTDI Console Cable; 2; 1800MM; (A)USB A TYPE 4P MALE+PCB:FTDI_FT232RL; (B)RJ-45 8P8C; RoHS
RS-232 to console cable	32005-005100-100-RS	ROUND CABLE; RS-232/422/485; PUZZLE RS-232 Cable; 2; 500MM; 24AWG; (A)D-SUB 9P MALE+#4-40 Screw; (B)RJ-45 PLUG 8P8C; ONE PCS PKG; TC&C; RoHS

## Dimensions (Unit: mm)

