

NCA-1050

Fanless Desktop Network Appliance With
Intel® Atom™ X7835RE/X7405C/X7203C Processors
(Codenamed Amston Lake)



■ Features

- Intel® Atom™ X7835RE/X7405C/X7203C Processors
- DDR5 4800MHz, SODIMM, Max. 16GB
- 1x 2.5GbE RJ45, 4x 1GbE RJ45, 1x Console Port, 1x USB 3.1, 1x Display Port (SKU A), 1x PoE+ (By Project)
- 6x Antenna Holes
- 2x M.2 (PCIe/USB3.1), 2x Nano SIM Slots

■ Specifications

Processor System

CPU	Intel® Atom X7835RE/X7405C/X7203C
Frequency	1.3/2.2/2.0GHz (By SKU)
Core Number	8/4/2 (By SKU)
BIOS	AMI SPI Flash BIOS
Chipset	SoC

Memory

Technology	DDR5 4800MHz SODIMM
Max. Capacity	16GB
Socket	1 x 262-pin SODIMM

Ethernet

Controller	4 x Intel i210AT
Speed	10/100/1000 Mbps
Interface	1x 2.5GbE RJ45, 4x 1GbE RJ45
Bypass	N/A

Storage

Type	SATA III
Installation	1 x M.2 2280 B-Key

I/O

Reset Button	1 x Reset Button, Software Reset
Console	1 x RJ45
USB	USB 3.1 x 1
IPMI	N/A
Display	1 x Display Port 1.2 (SKU A)

Expansion

PCIe	N/A
PCI	N/A
Mini-PCIe/M.2	1x M.2 (PCIe x1) 2230 E Key 1x M.2 (USB 3.1) 3042/3050/3052 B Key
SIM	2 x Nano SIM Slots

Cooling

Processor	N/A
System	Fanless

Environment

Operating Temperature	0 ~ 40°C
Storage Temperature	-20 ~ 70°C
Relative Humidity	5% ~ 90%, Operating 5% ~ 95%, Non-operating

Miscellaneous

LCD Module	N/A
Watchdog Timer	Yes
Internal RTC with Li Battery	Yes

Mechanical

Fanless	Yes
Dimension (W x H x D)	183 x 32 x 168 mm
Weight	0.88 kg
Mounting	Desktop

Power

Type / Watts	40W Power Adapter
Input	AC 100~240V@50~60 Hz

Driver Support

Microsoft Windows	N/A
Linux	Linux

Certification

EMC	CE/FCC Class B (Class A with PoE)
Safety	RoHS, UL, VCCI, UKCA

Product I/O View

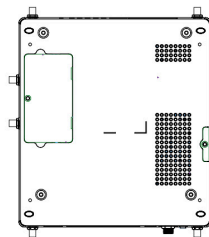
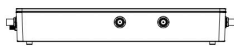
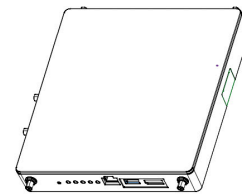
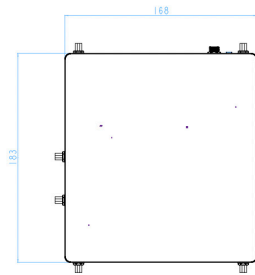


- A Power On/Off
- B DC Jack
- C 4x 1GbE RJ45

- D 1x 2.5GbE RJ45
- E Reset
- F Status LED

- G 1x Console
- H 1x USB 3.1
- I 1x DP (SKU A)

Dimensions 183 x 32 x 168 mm



Ordering Information

NCA-1050A	8-core 1.3GHz, Intel® Atom® X7835RE, 1x 2.5GbE, 4x 1GbE RJ45, 1x DDR5 SO-DIMM, 1x PoE+ Support, 1x TPM, Wi-Fi/LTE/5G Modules Support
NCA-1050B	4-core 2.2GHz, Intel® Atom® X7405C, 1x 2.5GbE, 4x 1GbE RJ45, 1x DDR5 SO-DIMM, 1x PoE+ Support, 1x TPM, Wi-Fi/LTE/5G Modules Support
NCA-1050C	2-core 2.0GHz, Intel® Atom® X7203C, 1x 2.5GbE, 4x 1GbE RJ45, 1x DDR5 SO-DIMM, 1x PoE+ Support, 1x TPM, Wi-Fi/LTE/5G Modules Support

V.1-2024.10.11