

Nord Technology

Distributor of MAINKCO hardware in Europe

NORD TECHNOLOGY CONTACT INFORMATION

World Trade Center
Borupvang 3,
2750 Ballerup,
Denmark

 **Tel.:** +45 70 27 04 15
 **Email:** sales@nord-t.eu
 **Website:** www.nordtechnology.dk

ABOX-2100





Key features:

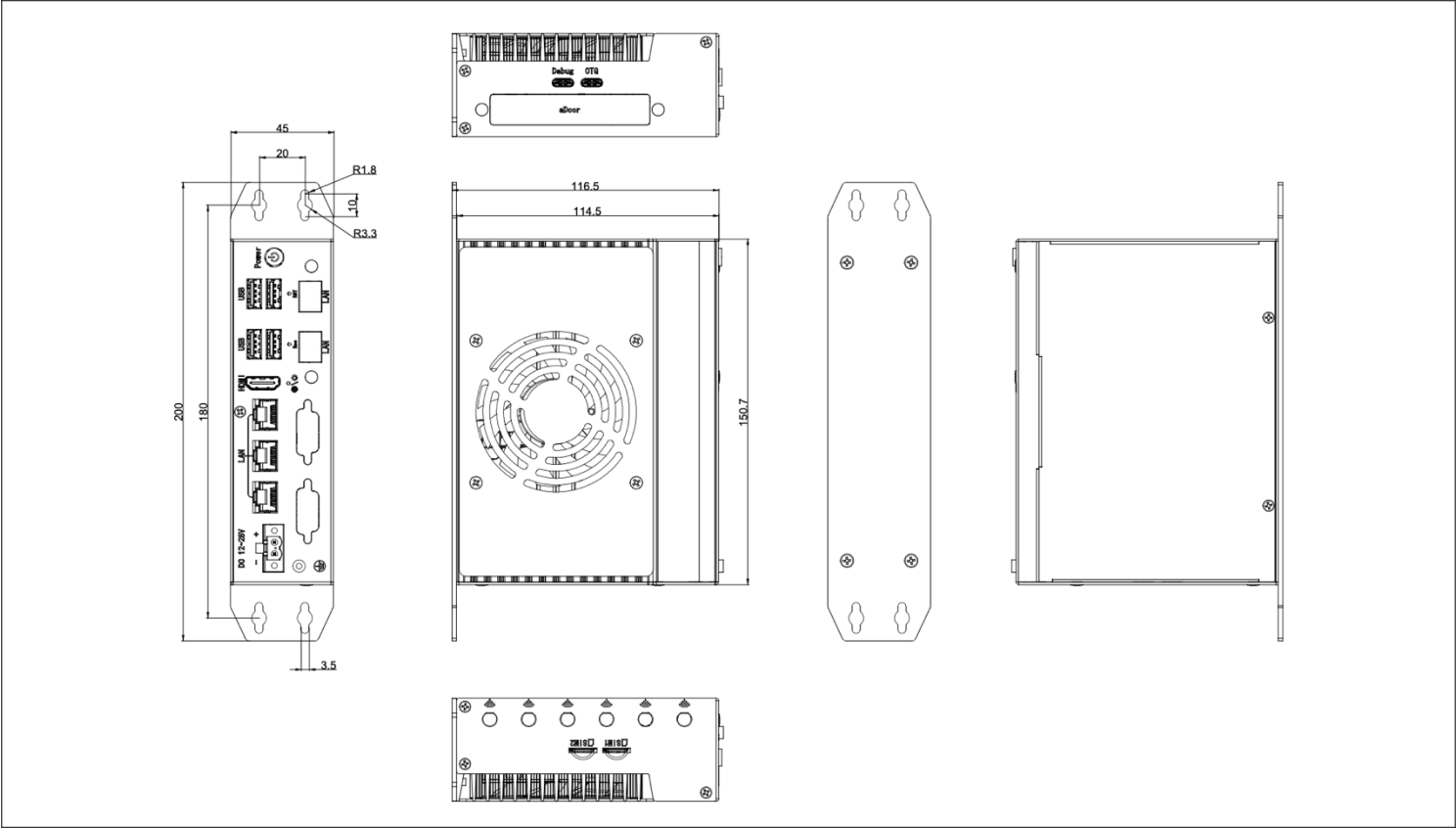
- Support NVIDIA Jetson Orin Series SO-DIMM platforms;
- Support super mode, max. up to 157 TOPS;
- Support 3* Independent GbE, 4* USB;
- Optional 16 bits GPIO, 4* RS232/RS485;
- Support 4G/5G, Wi-Fi/BT wireless function;
- Wide DC 12 ~ 28V power input;
- Ultra compact design, high strength metal sheet;
- Support wall mount and Din-Rail mount;

Technical Data

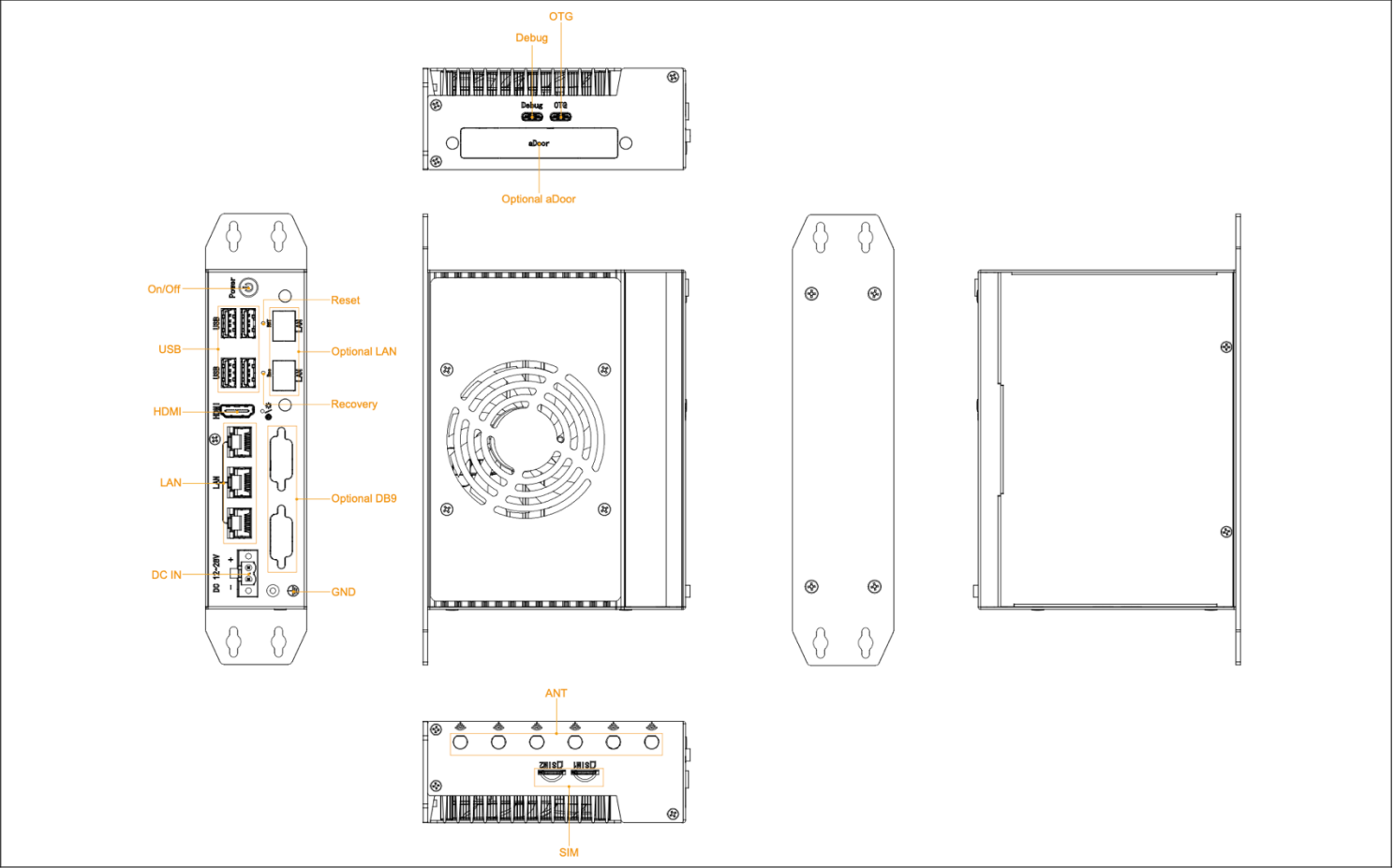
Models		ABOX-2140	ABOX-2141	ABOX-2150	ABOX-2151
Processor system	SOM	Orin Nano 4GB	Orin Nano 8GB	Orin NX 8GB	Orin NX 16GB
	AI Performance	20 TOPS /34 TOPS (super)	40 TOPS /67 TOPS (super)	70 TOPS /117 TOPS (super)	100 TOPS /157 TOPS (super)
Ethernet	Controller	1* GbE LAN chip from SOM; 2* Intel i210AT GbE			
Storage	M.2	1* M.2 Key-M Slot (PCIe Gen 4x1, NVMe SSD, 2280)			
Expansions	Mini-PCIe	1* Mini-PCIe slot (PCIe Gen2 x1 + USB2.0, with 1* Nano Sim Card slot)			
	M.2	1* M.2 Key-E slot (PCIe Gen 2x1 + USB2.0, 2230)			
	M.2	1* M.2 Key-B (USB 5Gbps + USB2.0, 3052, with 1* Nano SIM Card slot)			
Front I/O	Ethernet	3* GbE (RJ45)			
	USB	2* USB 10Gbps (Type-A); 2* USB 5Gbps (Type-A)			
	Display	1* HDMI, Max resolution up to 4096 * 2304 @30Hz			
	Button	1* Power Button/Indicator; 1* System reset button; 1* System recovery button			
	LED	1* System status indicator			
	Power Input	DC terminal block, P=5.00/5.08			
Side I/O	OTG	1* USB2.0 (Type-C, Flashing Port)			
	Debug	1* USB2.0 (Type-C, Debug port)			
	SIM	2* Nano SIM			
Internal I/O	COM	4* RS232/RS485 (wafer, Jumper switch, default RS232); 1*RS232/ TTL (BOM switch, default RS232)			
	CAN	2* CAN FD (wafer)			
	GPIO	16 bits DIO (OS configurable DI/DO and H/L, wafer)			
	Audio	1* Audio (Line-out +Mic, wafer); 1* Amplifier (wafer)			
	USB	2* USB2.0 (wafer)			
	SPI	1* SPI			
	PPS	1* PPS_IN			
	FAN	1* system Fan (wafer)			

	BAT	1* BAT (wafer)
	Front Panel	1* Front Panel (Power + Reset + Recovery, wafer)
Power Supply	Type	DC terminal block
	Power Input	DC 12~28V
	RTC Battery	CR2032 Coin Cell
OS	Linux	Jetpack 6.2 (Ubuntu 22.04)
Mechanical	Material	Radiator, Aluminum Alloy
	Dimension	150.7 mm * 114.5mm * 45mm (Mounting rack not included)
Environment	Cooling system	Active Fan Cooling
	Operating temp.	-20 ~ +50C (Industrial SSD)
	Storage temp.	-40 ~ +80C
	Humidity	10% to 90% RH (Non-Condensation)
	Vibration	IEC 60068-2-64 (3Gms @5~500Hz, random, 1hr/axis) with SSD
	Shock	IEC 60068-2-27 (15G, half sine, 11ms) with SSD

Dimension



I/O interface



Ordering Information

ABOX-2140	NVIDIA Orin Nano 4GB SOM , 20 TOPS, 3* GbE, 2* USB 10Gbps, 2* USB 5Gbps, 1* HDMI, DC terminal 12~28V input, PSU
ABOX-2141	NVIDIA Orin Nano 8GB SOM , 40 TOPS, 3* GbE, 2* USB 10Gbps, 2* USB 5Gbps, 1* HDMI, DC terminal 12~28V input, PSU
ABOX-2150	NVIDIA Orin NX 8GB SOM , 70 TOPS, 3* GbE, 2* USB 10Gbps, 2* USB 5Gbps, 1* HDMI, DC terminal 12~28V input, PSU
ABOX-2151	NVIDIA Orin NX 16GB SOM , 100 TOPS, 3* GbE, 2* USB 10Gbps, 2* USB 5Gbps, 1* HDMI, DC terminal 12~28V input, PSU



The information in this specification is subject to change without notice.

All parts of Mainkco IPC documentation are protected by copyright law and all rights are reserved. This documentation may not, in whole or in part, be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form without prior consent, in writing, from TAICENN Technology.