

RXE-6500 series

Product Features

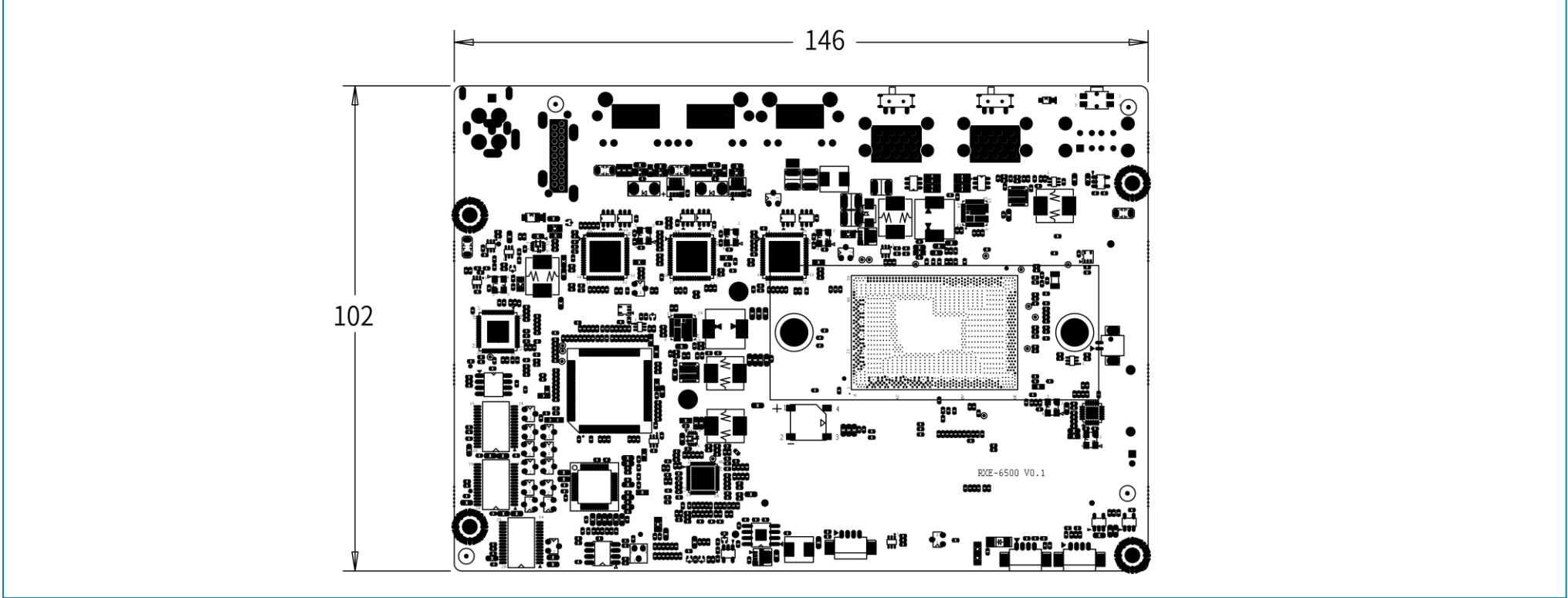
- Intel® Alder Lake-N series N50/ N97/ N200/ i3-N305
- Single-channel DDR5-4800, up to 16GB
- Dual Independent Displays: HDMI, eDP/LVDS (Switching controlled by BIOS)
- 3 LAN (3 x Intel i210, 2 of which support PoE functionality)
- 3 USB 3.0, 6 USB 2.0 (including 3 internal USB 2.0 ports)
- 2 RS-232/485, 2 RS-232, 2 TTL
- Supports 4G/5G, WiFi6 wireless communication module expansion
- 8 GPIO, 1 Audio, 1 SATA3.0, 1 I2C, 1 SMBus
- DC 12-24V
- 146 x 102mm (L x W)
- Windows 10/11, CentOS 8, Ubuntu 20.04/22.04



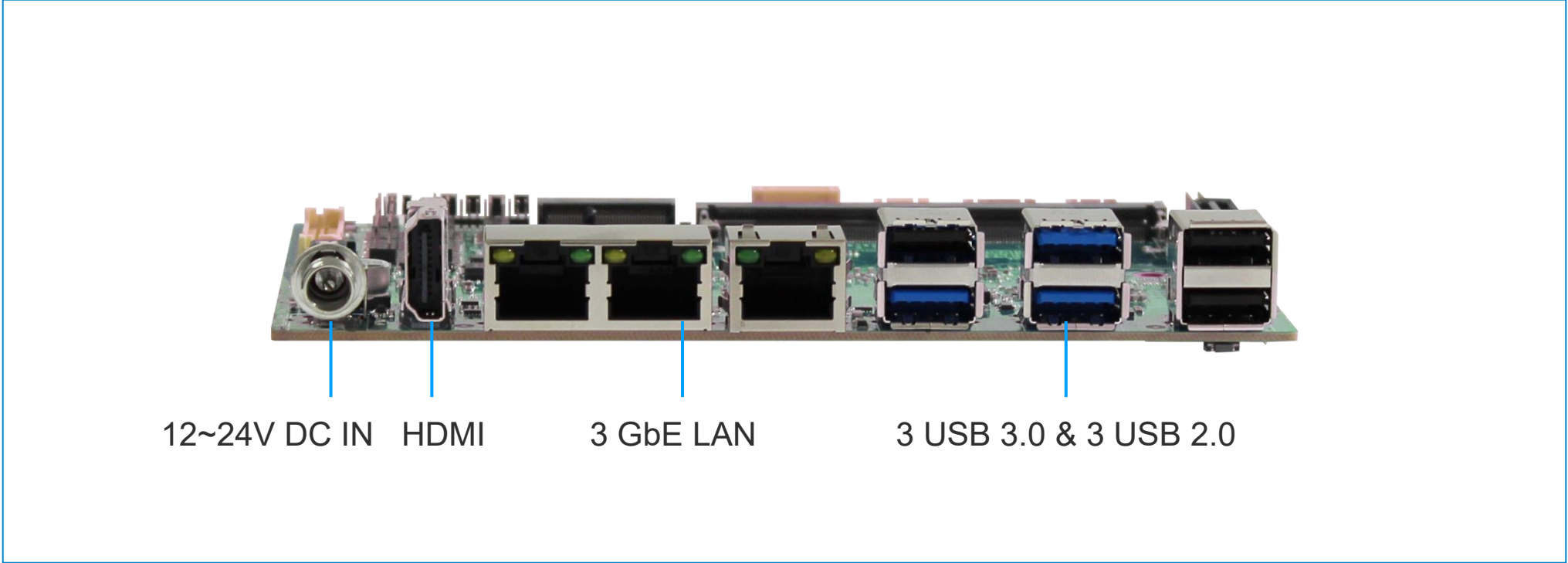
Specification

Specs		Describe
Processor system	CPU	Intel® Alder Lake-N series N50/ N97/ N200/ i3-N305
	TDP	Up to 150,000W
	BIOS	AMI 128Mbit SPI Flash
Memory	Technology	Single-Channel DDR5 4800MT/s SO-DIMM
	Maximum capacity	Up to 16GB
Graphics card	Controller	Intel Gen12 UHD Graphics Engines (SoC Integrated)
	Features	DX12, OpenGL 4.6, Vulkan 1.2
Display	HDMI	1 HDMI2.0b resolution up to 4Kx2K@60Hz
	LCD1	1 x eDP/LVDS dual-channel 18/24-bit resolution up to 1920x1200
External interface	HDMI	1 HDMI2.0b resolution up to 4Kx2K@60Hz
	Ethernet	3 x Intel i210 GbE LAN (2 support PoE)
	USB	3 x USB 3.0, 3 x USB 2.0
	Power input interface	DC-Jack or 4-pin Phoenix connector (optional)
Internal API	USB 2.0	3 x Internal USB 2.0 (pin)
	Serial port	2 x RS-232/485, 2 x RS-232, 2 x TTL
	SATA 3.0	1 x SATA 3.0
	General Purpose Input/Output	8-bit general purpose input/output
	Audio	1 x Microphone in/Line out
	LCD	1 x eDP/LVDS dual-channel 18/24-bit resolution up to 1920x1200
	Inverter	1 x eDP/ LVDS Inverter
	LED indicator light	Power light, Hard disk light, User-defined light 1, User-defined light 2
	I2C	1 x I2C
	SMBus	1 x SMBus
	SIM	1 x Nano SIM
	CPU Fan	1 x CPU Fan
Expand	M.2 E-Key	1 x M.2 2230 Wi-Fi supported (CNVI protocol supported)
	M.2 B-Key	1 x M.2 3042/3052 supporting 4G/5G
	M.2 M-Key	1 x M.2 2280 SATA3.0
Other	Watchdog Timer	Level 65536, 0-65535 seconds
	Watchdog Clear CMOS	Restart via Watchdog
	Total Productive Maintenance	TPM 2.0 (Optional)
Power	Voltage input	DC 12-24V ± 10%
	Power management	AT/ATX
	Maximum power consumption	30W (N50, N97, N200) /45W (i3-N305)
Environmental parameters	Operating temperature	0~ 60° C (32~140°F)
	Storage temperature	-40° C ~ 85° C (-40~185°F)
	Work humidity	95% @ 40 °C (non-condensing)
	Storage humidity	95% @ 60 °C (non-vaporizing)
Physical characteristics	Size	146 x 102 mm (L x W)
Operating system	Operating System	Windows 10/11, CentOS 8, Ubuntu 20.04/22.04

Dimension



Interface



Order information

Model	CPU	TDP	睿频	Core	Thread	LAN	USB 2.0	USB 3.0	COM	SATA 3.0	Power
RXE-6500-01	N50	6W	3.40 GHz	2	/	3	6	3	6	1	12~24V DC
RXE-6500-02	N97	12W	3.60 GHz	4	/	3	6	3	6	1	12~24V DC
RXE-6500-03	N200	6W	3.70 GHz	4	4	3	6	3	6	1	12~24V DC
RXE-6500-04	i3-N305	15W	3.80 GHz	8	8	3	6	3	6	1	12~24V DC

Optional accessories

Part number	Describe
MF0A000000000069	M.2 2230 WIFI6 2T2R AW-XB547NF
MF0A000000000070	M.2 2230 WIFI Module + BT5.0 1T1R AW-CB515NF
MF0A000000000016	5G Module, M.2 RM500Q-GL Sub-6 GHz Global (Excluding US)
MF0A000000000042	5G LTE Module, M.2 RM520NGLAA-M20-SGASA, Global Version
MF0A000000000066	5G LTE Module M.2 RM500UCNVAA-D10-SNADA EMEA, Asia-Pacific
MF0A000000000036	4G LTE module, M.2 EM05CEFC-128-SGAS, Domestic version

System supports

Part number	Describe
AA0A000000000002	Win10 IoT Ent 2019 LTSC Entry OEM
AA0A000000000003	Win10 IoT Enterprise 2019 LTSC MultiLang ESD OEI High End
AA0A000000000004	Win10 IoT Enterprise 2019 LTSC MultiLang ESD OEI Value
AA0A000000000005	Win10 IoT Enterprise 2021 LTSC Multilang ESD OEI Entry
-	Windows 11
-	CentOS 8 (RXE-6500)
-	ubuntu 20.04 (RXE-6500)
-	ubuntu 22.04 (RXE-6500)

Packing list

Part number	Describe	Quantity
-	RXE-6500 single board computer	1