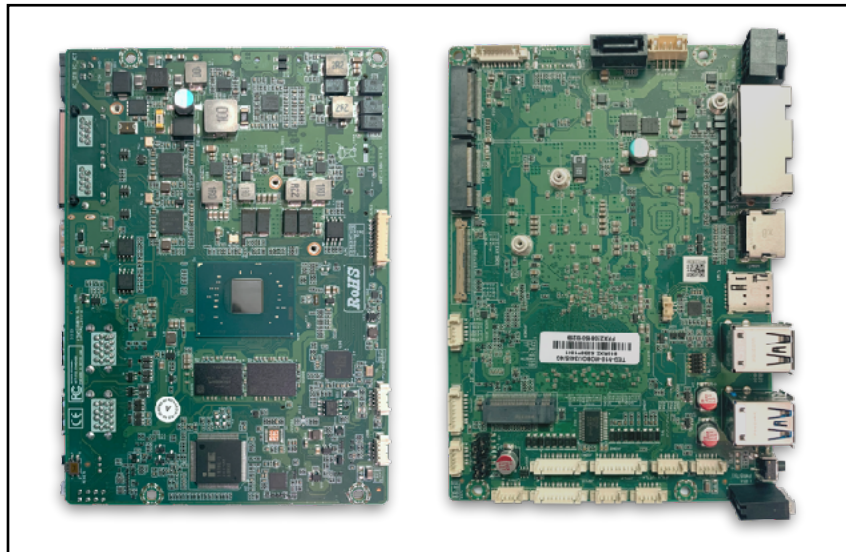


## IEM-3160 Series Board Computer

### Features 产品特性

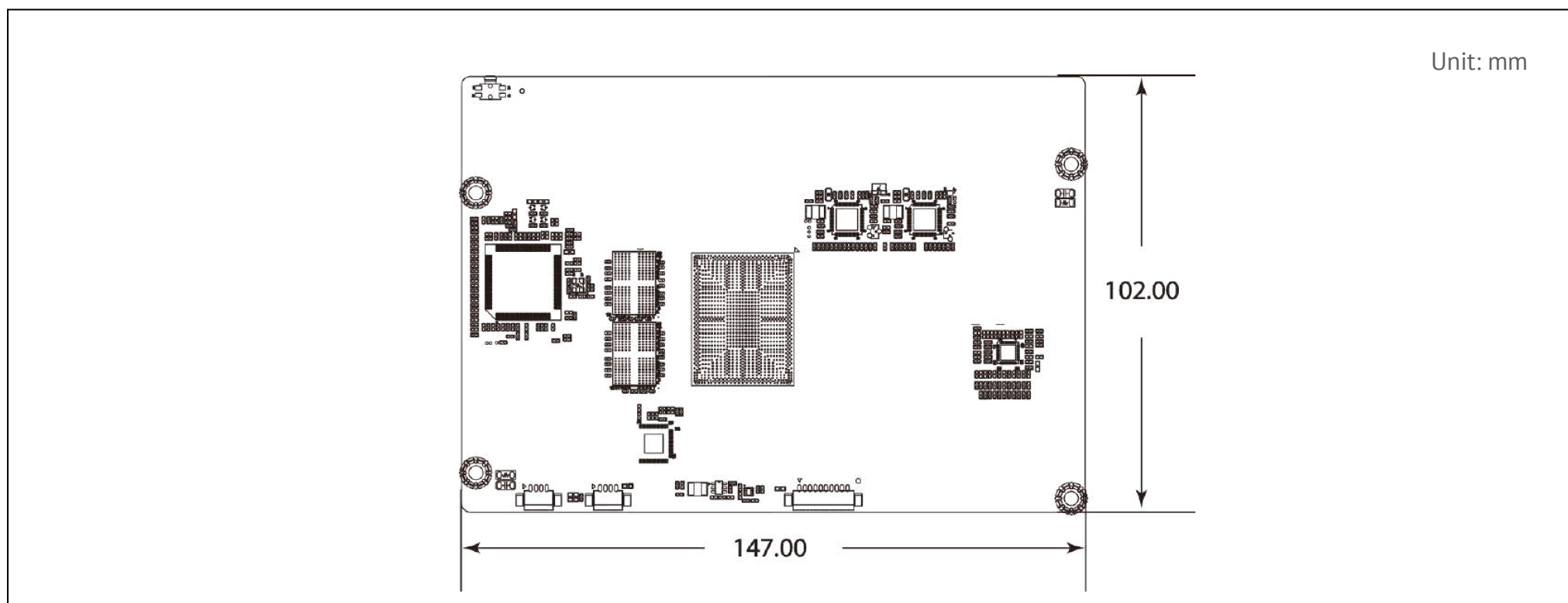


- Intel® Apollo Lake platform SoC processors
- Max. 8GB LPDDR4 soldered RAM
- Support HDMI, eDP/LVDS, VGA multi display
- Support DirectX 12.0, OpenGL 4.3, OpenCL 2.0
- 2 x Intel I225-V GbE LAN, 3 x USB 3.0, 3 x USB 2.0(2 internal USB2.0)
- 1 x RS-232, 1 x RS-232/422/485(4xTTL support RS-232 or RS-485)
- 3 x M.2, 1 x Nano SIM, 1 x SATA3.0, 1 x UPS(Optional)
- Support Watchdog
- Support TPM2.0

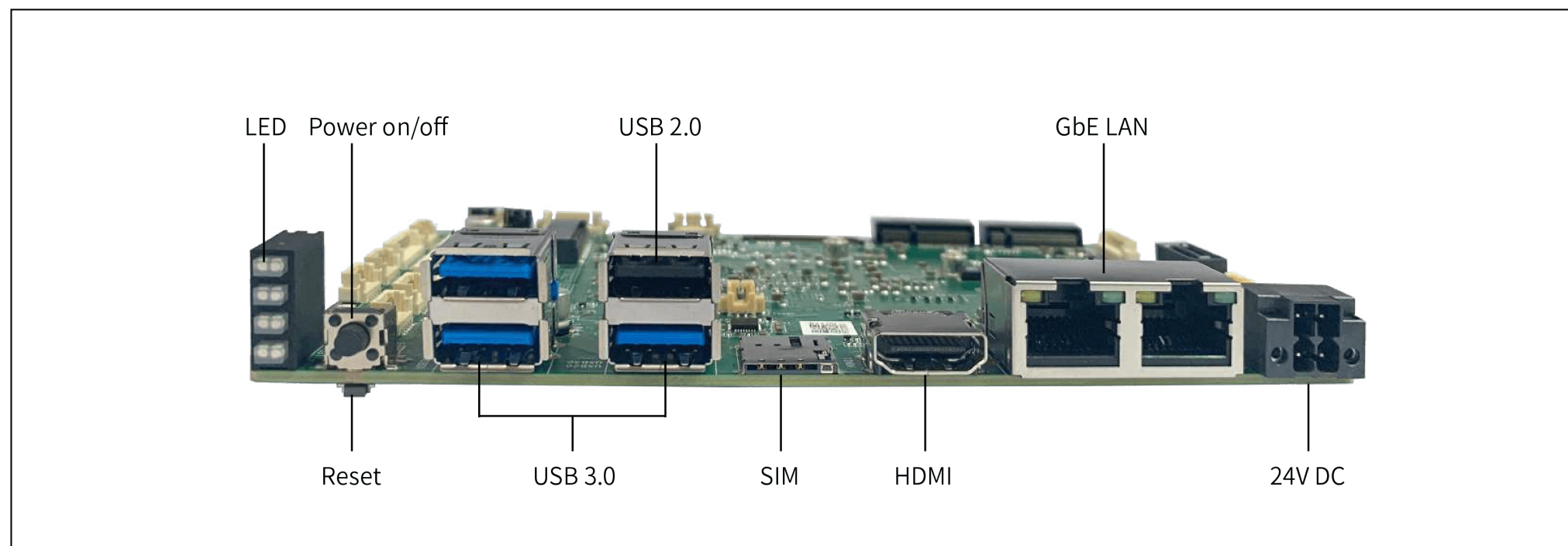
### Specifications 规格信息

Item	Specs	Description
Processor System	CPU	Intel Apollo Lake Celeron/Pentium CPU (N3350/J3355/J3455/J4205/N4200)
	TDP	10 W MAX
	BIOS	AMI UEFI BIOS at 64 Mb
Memory	Technology	LPDDR4
	Max. Capacity	8 GB
Graphics	Controller	Intel Gen9 Graphic Engine
	Graphic Features	DirectX 12.0, OpenGL 4.3, OpenCL 2.0, HW Decode: H.264, MPEG2, VC-1, WMV9, H.265/HEVC, VP8, JPEG/MJPEG
Display	HDMI	1x HDMI 3840 x 2160 @ 30Hz
	LCD 1	1x eDP/LVDS Up to 1920x1200 60Hz
	VGA	1x Max Resolution up to 1920 x 1200@60Hz
External I/O	USB 3.0	3
	USB 2.0	1
	HDMI	1
	LED	Power status, HDD R/W, USER1, USER2
	SIM	1x Nano SIM
	Ethernet	2x Gbe Intel I225-V
Internal Connectors	USB 2.0	2
	VGA	1
	SATA 3.0	1
	Serial Port	1 x RS-232/422/485, 1x RS-232
	Serial Port	4 x (TTL TX/RX/CTS/RTS/GND)
	GPIO	8
	Audio	1x HDA
	SMBus	1
	LPC	1
	CPU FAN	1 x 4-Wire Smart Fan, 12V@2A
	Front Panel Control	Power LED, HD LED, Reset, Power Switch
	User LED	4
	UPS	1(Optional)
Expansion	M.2 E-Key	1x M.2 E-Key 2242 Support Wi-Fi
	M.2 B-Key	1x M.2 B-Key 3052 Support 4G/5G USB3.0
	M.2 M-Key	1x M.2 B/M-Key 2280 Sata3.0
Board Feature	Watchdog Timer	65536 lever, 0-65535 sec
	TPM	TPM 2.0
Power Requirement	Supply Voltage	DC 24V ± 5%
	Power Management	AT/ATX
	Max. Consumption	35W
	Test Environment	Intel J4205 4G
OS	OS Support	Windows 10, Linux
Environment	Temperature	Operating 0 ~ 60 °C, Extend -40°~85°C
		Non-Operating -40 ~ 85 °C (-40 ~ 185 °F)
	Humidity	Operating 40 °C @ 95% RH Non-condensing
		Non-Operating 60 °C @ 95% RH Non-condensing
Physical Characteristics	Dimensions (L x H)	146 x 102 mm

## Dimensions 尺寸



## Interface 接口



## Ordering Information 订购信息

Part Number	CPU	Mem	GbE	USB 3.0	USB2.0	Serial Port	HDMI	SIM	m.2	SATA 3.0	VGA	LCD 1	DC-Input
IEM-3160-N2000	N3350	4G	2	3	1	6	1	1	3	1	1	1 eDP/LVDS	24V
IEM-3160-J2000	J3355	4G	2	3	1	6	1	1	3	1	1	1 eDP/LVDS	24V
IEM-3160-J3000	J3455	4G	2	3	1	6	1	1	3	1	1	1 eDP/LVDS	24V
IEM-3160-N4000	N4200	4G	2	3	1	6	1	1	3	1	1	1 eDP/LVDS	24V
IEM-3160-J4000	J4205	4G	2	3	1	6	1	1	3	1	1	1 eDP/LVDS	24V