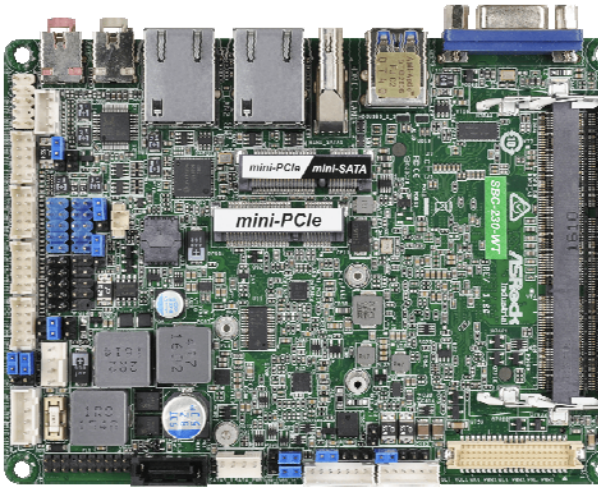


SBC-230

Intel Apollo Lake Pentium CPU Quad-Core 3.5" Industrial SBC with VGA/HDMI/LVDS 2LAN, 4COM, 2USB3/4USB2, SATA3, DC-IN



Features

- The best platform for Panel PC, Box PC, POS, signage and KIOSK
- Onboard Quad-Core Intel Pentium N4200 2.5GHz CPU
- Onboard Dual-Core Intel Celeron N3350 2.4GHz CPU
- One 204-pin SODIMM DDR3L 1867MHz DRAM up to 16GB
- Supports 1 x Mini-PCIe full-size and 1 x Mini-PCIe full-size which shared with m-SATA
- Dual display by VGA/HDMI
- Dual Gigabit LAN, 2 x USB 3.0, 4 x USB 2.0
- 1 x COM by RS-232/422/485 and 3 x COM by RS-232
- 1 x SATA 3Gb/s, 1 x SATA PW
- DC voltage 9V-36V by 4-Pin internal box wafer header
- 0°C ~ 60°C harsh operation environment

Specifications

	CPU (22nm)	Intel Pentium N4200 / SBC-230D	Intel Celeron N3350 / SBC-230L
Processor System	Max. Speed	2.5GHz	2.4GHz
	Core Name & Power	Apollo Lake, 6W	Apollo Lake 6W
	Core Number & Cache	4 Cores, 2MB Cache	
	BIOS	AMI UEFI	
Expansion Slot	Mini-PCIe	1 x full-size Mini-PCIe	
	Mini-PCIe/mSATA	1 x full-size Mini-PCIe(shared with mSATA)	
Memory	Specification	Dual Channel DDR3L-1867 MHz	
	Max. Capacity	2 x SO-DIMM, up to 16 GB	
Graphics	VGA	Supports max. resolution 1920 x 1200@60Hz	
	HDMI	Supports HDMI 1.3a max. resolution 4096 x 2160@24Hz	
	LVDS	1x dual-channel 24-bit LVDS, max resolution 1920 x 1200@60Hz	
Ethernet	Interface Controller	2x Intel I210	
	Connector	2 x RJ-45	
SATA	Max Data Transfer Rate	6.0Gb /s	
	SATA3	1 x SATA3	
Rear I/O	VGA	1 x DB-15	
	HDMI	1 x HDMI	
	Ethernet	2 x RJ45	
	USB	2 x USB 3.0 Type-A	
	Audio	2 x Audio port (Mic-in, Line-out)	
Internal Connector	LVDS	1 x 40-pin LVDS connector for dual-channel 24-bit LVDS	
	Inverter	1 x 2.0 6-pin box wafer for inverter power control	
	Backlight & Amp Volume	1 x 2.0 7-pin box wafer connector for backlight and Amp volume control	
	USB	2 x 2x5-pin 2.54 pin header for 6 x USB 2.0	
	Serial	4 x 2x5-pin 2.0 box header(1 RS-232/422/485, 3 RS-232)	
	SATA/PWR	1 x 6Gb/s SATA connector, 1 x 4-pin for SATA PWR	
	Speaker Header	1 x 5x2-pin 2.54 pin-header	
	GPIO	1 x 5x2-pin 2.54 pin-header for 4 x GPI + 4 x GPO	
	Speaker	1 x 5x2-pin 2.54 pin-header for speaker-out L/R	
	System Panel	1 x 5x2-pin 2.54 pin-header for power-on button, reset, power-on LED, HDD LED	
	CPU/System Fan	1 x 4-pin CPU fan connector, 1 x 4-pin system fan connector	
	DC Input	1 x 4-pin box header	
Watchdog Timer	Output and Interval	System reset, programmable 1 ~ 255 sec/min; 1 sec. or 1min. /step	
Power Requirement	Typical	10W-15W	
		Operating	Storage
Environment	Temperature	0 ~ 60°C (32 ~ 140°F)	-40 ~ 85°C (-40 ~ 185°F)
	Physical Size	Dimensions 148mm x 102mm (6.69" x 6.69")	
Packing for shipment	SBC with CPU heatsink	Gift Box: QTY=20, 59.0x26.0x32CM, N.W. = 8Kg, G.W. = 12.4Kg	
	SBC only w/o heatsink	Bulk Pack: QTY=20, 41.5x30.5x20 CM, N.W. = 3Kg, G.W. = 4.2Kg	