ARES-1230-POS

Fanless Embedded Controller with Intel® Bay Trail SoC Processor

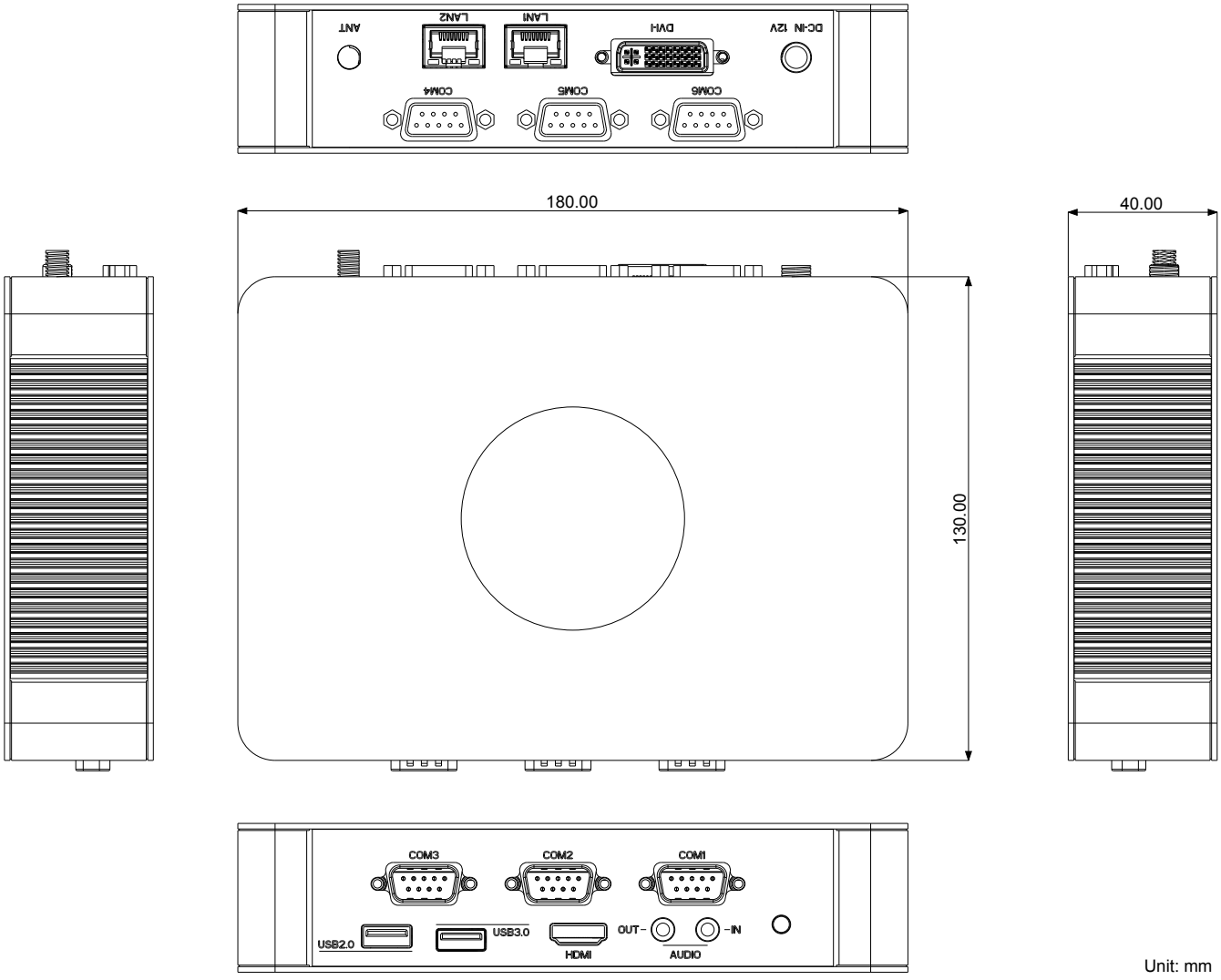
Features

- Intel® Celeron N2930 Quad Core™ 2.16 GHz SoC
- DDR3L 1600MHz SO-DIMM memory support up to 8GB
- Low Profile Enclosure (Aluminum alloy)
- 6 x COM ports (two w/ 5V or 12V, selectable)
- Support 1 x Full-size and 1 x half-size MiniPCIe
- Video display: HDMI + DVI-I
- 1 x Antenna hole for optional WiFi function
- Wall Mounting kit

System	
CPU	Intel® Quad-Core Processor N2930
Memory	1 x SO-DIMM 204Pin modules supports up to 8GB DDR3L -1600MHz
Chipset	Intel® SoC
Graphics	Intel® HD Graphics
LAN Chipset	2 x Intel® i210AT PCIe controller
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	COM 1~2: RS-232/422/485 (DB9, selectable, w/ 5V/12V) COM 3~6: RS-232/485 (DB9, selectable)
USB Port	1 x Type A USB2.0 ports 1 x Type A USB3.0/2.0 ports
LAN Port	2 x RJ-45 ports for GbE
Video Port	1 x DVI-I connector 1 x HDMI connector
Audio	Mic-in/Line-out
WiFi	1 x SMA antenna hole for optional WiFi function
Expansion Bus	1 x mSATA 1 x Full-Size mPCIE (PCIex1+USB2.0) 1 x Half-Size mPCIE (PCIex1 Lane only) 1 x SIM card socket
Environmental	
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F), ambient with air flow
Storage Temp.	-40 ~ 85°C (-40 ~ 185ºF)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Vibration	5~500Hz 3G rms X,Y,Z axis w/SSD, according to IEC 68-2-64
Shock & Crash	40G peak acceleration (11 m sec. duration), operation
	60G peak acceleration (11 m sec. duration), non operation
	According to IEC 68-2-27

Qualification	
Certification	CE, FCC Class A
Power Requirement	
Power Input	DC 12V Input w/ DC-Jack
Power Consumption	20W
Storage	
Type	1 x mSATA for SATA interface SSD Supports 600MB/s HDD transfer rate
Mechanical	
Construction	Aluminum alloy
Mounting	Wall-Mount
Weight	933g (2.06lb)
Dimensions (W x D x H)	180 x 130 x 40 mm (7.09" x 5.12" x 1.57")
OS Support	
Windows 7 / Windows 8.1 / Windows 10	
Ordering Information	
ARES-1230-POS	Intel® Bay Trail Atom™ N2930 bare-bone, 12V Input / 6 x COM ports

Dimensions



Unit: mm

Optional Configuration (CTOS* Kit)

PAC-P060W-04	12V/5A 60W AC/DC Adapter Kit	
WiFi-AT2130	Atheros AR9462 WiFi module w/ 10cm & 20cm internal wiring	
ANT-D11	1 x Wi-Fi Dual-band 2.4G/5G antenna	
MM-3IL-2G	Industrial DDR3L-1333/1600 2GB SO-DIMM SDRAM	
MM-3IL-4G	Industrial DDR3L-1333/1600 4GB SO-DIMM SDRAM	
32GB SSD	mSATA MLC 32GB	
64GB SSD	mSATA MLC 64GB	

**CTOS means Configure-to-Order Service.*