

# ARES-1231

Fanless Embedded Controller with Intel® Bay Trail SoC Processor



## Features

- Intel® Bay Trail SoC platform
- Fanless Design
- Multi-COMs with 5/12VDC power output
- Multi-DIOs
- 2 x Gbe Ethernet LANs connectivity
- 1 x USB 3.0 + 5 x USB 2.0 Ports
- 1 x RJ-11 for cash drawer
- Optional Wi-Fi connection supported

## System

CPU	Intel® Celeron® Processor N2930
Memory	1 x 204-pin SO-DIMM sockets, Supporting DDR3L 1600 MHz, up to 8GB. 4GB DDR3L memory module installed
Chipset	Intel® SoC
Graphics	Intel® HD Graphics
LAN Chipset	2 x Intel® i210AT PCIe controllers
Watchdog Timer	1~255 levels reset

## I/O

Serial Port	4 x RS-232/422/485 w/ 5V/12VDC (DB9, DIP switch Selectable) 8 x RS-232/485 (DB9, Selectable) 4 x RS-232/485 (PIN-Header, Selectable)
USB Port	1 x USB 3.0/2.0 combo port 5 x additional USB 2.0 ports
Video Port	1 x DVI-I connector 1 x HDMI connector
D-IO	16 x DI, 16 x DO (1 x DB26 w/ 8DI+8DO + 1 x pinheader w/ 8DI+8DO)
RJ-11	12V/24V for Cashdrawer
Expansion Bus	1 x mSATA slot 1 x SATA for 2.5" SSD Drive 1 x Half-Size mPCIE (PCIex1 Lane only)

## Environmental

Operating Temp.	-20 ~ 60°C (-4 ~ 140°F), ambient w/ air flow
Storage Temp.	-40 ~70 °C (-40 ~ 158°F)
Operating Humidity	10 ~ 95% @ 60°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
<b>Power Requirement</b>	
Power Input	DC 12V Input (w/ DC-Jack)
Power Consumption	Max. 16W (w/o I/O card)
<b>Storage</b>	
Type	1 x mSATA socket 1 x 2.5" drive bay for SATA interface HDD/SSD Supports 600MB/s HDD transfer rate

## Mechanical

Construction	Metal, IP30
Mounting	Wall-mount
Weight	1.695kg (3.74lb)
Dimensions (W x H x D)	240.4 x 60.2 x 126.2 mm (9.46" x 2.37" x 4.97")

## OS Support

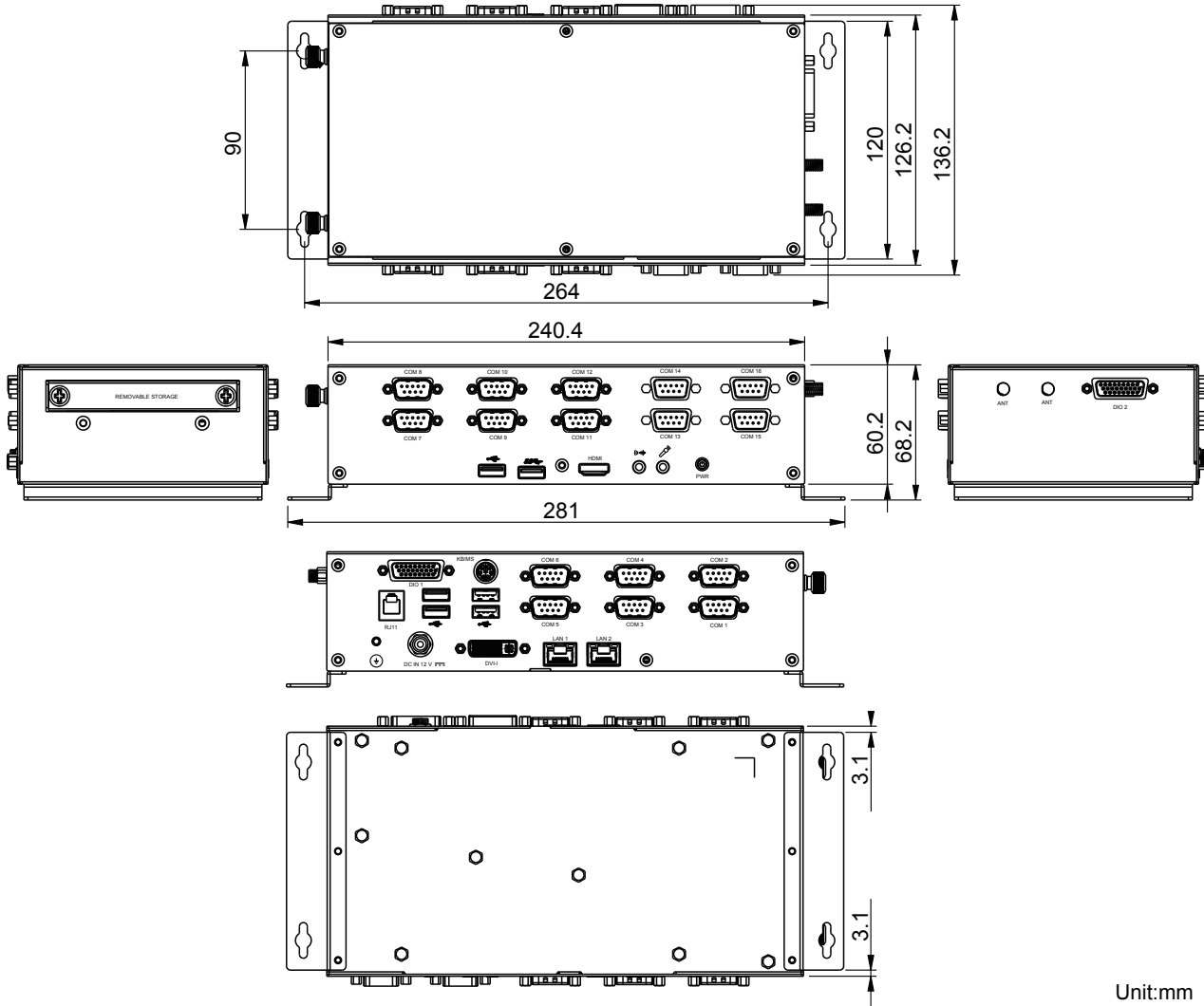
Windows 7 / Windows 8.1 / Windows 7/8.1 Embedded / Windows 10

## Ordering Information

ARES-1231	ARES-1231 Intel® Celeron® Processor N2930, barebone, 12V Input
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# Dimensions



Unit:mm

## Optional Accessories

PAC-P060W-01 60W AC/DC Adapter Kit



## Optional Configuration (CTOS\* 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-3CL-4G DDR3L-1333 4GB SDRAM

MM-3CL-8G DDR3L-1333 8GB SDRAM



16GB SSD mSATA MLC 16GB

32GB SSD mSATA MLC 32GB



80GB SSD Intel® 2.5" 80GB SATAIII SSD kit



\*CTOS means Configure-to-Order Service.