

# ARES-1500-B21

Robust Box PC with AMD G-Series APU G-T40N Platform for Automation Applications



## Features

- **Fanless Design**
- Low Profile Enclosure
- Soldered onboard AMD G-Series APU G-T40N dual-core 1.0GHz
- Rich I/O (6 x USB, 8 x COM, 2 x GbE LAN, DVI-I, DIO, 3 x Mini-card)
- Fanless with Aluminum Chassis Design Suitable for Harsh Environment
- Triple-mPCIe for 3G, Wi-Fi, GPS
- mSATA and SATA storage

## System

CPU	Soldered onboard AMD G-Series APU G-T40N dual-core 1.0GHz
Memory	1 x 204-pin DDR3 SO-DIMM socket, supporting 800/1066MHz SDRAM up to 8GB
Chipset	AMD A50M
Graphics	Integrated AMD G-Series
LAN Chipset	2 x Realtek 8111 GbE controllers
Watchdog Timer	1~255 levels reset

## I/O

Serial Port	6 x RS-232 ports via six DB-9 connectors. (One is RS-232/422/485 configurable.) 2 x RS-422/485 configurable ports via one terminal block
USB Port	6 x USB 2.0 ports
LAN	2 x RJ-45 ports for GbE
Video Port	1 x DVI-I female connector for digital video output
Audio	Mic-in/Line-out
Expansion Bus	3 x Mini-card sockets for optional Wi-Fi / HSUPA / GPS module (One is interconnected with a SIM card socket ) 1 x SIM socket 1 x 8-bit digital input/output (4-in/4-out)

## Environmental

Operating Temp.	-25 ~ 55°C (-13 ~ 131°F), ambient w/ air flow
Storage Temp.	-35 ~ 65°C (-31 ~ 149°F)
Relative Humidity	10 ~ 95% @ 55°C (non-condensing)
Vibration	3 Grms/5~500Hz/random operation
Shock	Operating 50G (11ms), Non-operating 80G with SSD

## Qualification

Certification	CE, FCC Class A
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## Power Requirement

Power Input	DC 9-36V by 3-pin terminal block
Power Consumption	Max. 26W

## Storage

Type	1 x mSATA socket 1 x 2.5" drive bay
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## Mechanical

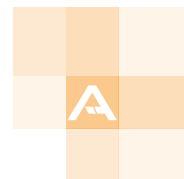
Construction	Aluminum alloy
Mounting	Wall-mount
Weight	1.575Kg (3.465lb)
Dimensions (W x D x H)	290 x 150 x 40mm (11.3" x 5.89" x 1.57")

## OS Support

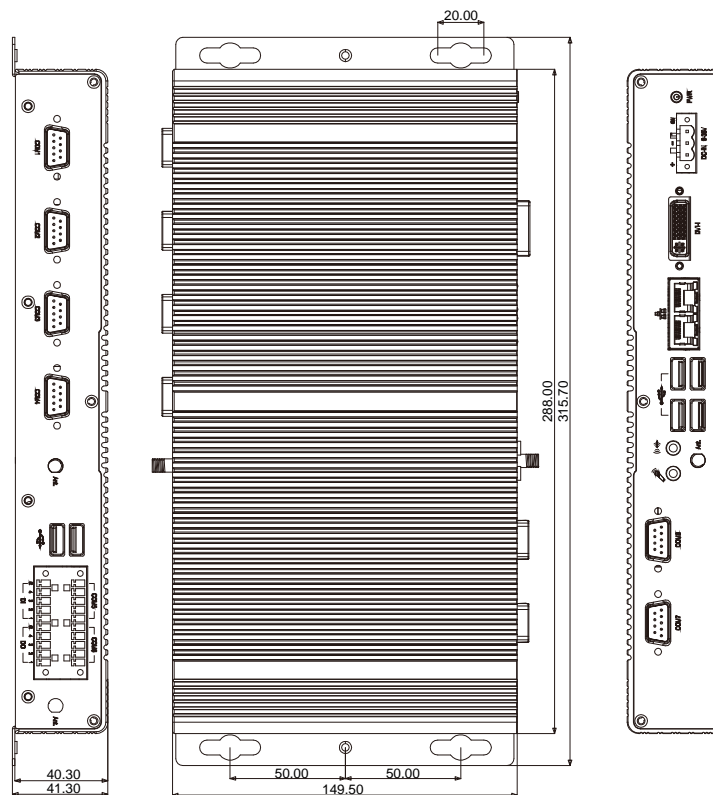
XPe / WS7E / WS7E

## Ordering Information

ARES-1500-B21-16S2G	Box PC w/ 16GB SSD and 2GB memory
ARES-1500-B21	Barebone system w/o storage device and memory



## Dimensions



Unit: mm

### Optional Accessories

PAC-P065W 19V/3.4A 65W AC/DC adapter kit



### Optional Configuration (CTOS\* Kit)

WIFI-AT2130 Atheros AR9462 Wi-Fi module w/ 10cm & 20cm internal wiring



ANT-H11 1 x 2dBi HSUPA antenna



ANT-D11 1 x Wi-Fi dual-band 2.4G/5G antenna

HSPA-SI1400 HSUPA 3.75G module kit & internal wiring



MM-3C-4G DDR3-1333 4GB SDRAM



MM-3C-2G DDR3-1333 2GB SDRAM

16GB SSD mSATA MLC 16GB



32GB SSD mSATA MLC 32GB



GPS-mPCIe Kit LOCOSYS GPS Kit w/ IPEX-SMA cable, Antenna



\*CTOS means Configure-to-Order Service.