

ARES-1500-B21

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



Features

- **Fanless Design**
- Low Profile Enclosure
- AMD G-T40N Dual-Core 1GHz Processor
- Rich I/O (6 x USB, 8 x COM, 2 GbE LAN, DVI-I, DIO)
- Fanless with Aluminum Chassis Design Suitable for Harsh Environment
- Triple-mPCIe for 3G, WiFi, GPS
- mSATA and SATA storage

System

CPU	Soldered onboard AMD G-T40N Dual Core 1.0GHz processor
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	5 x RS-232 in DB-9
	1 x RS-232/422/485 selectable in DB-9
	2 x RS-422/485 selectable in terminal block, w/ 2.5 kV isolation protection (optional)
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 slot interconnected with SIM card socket for optional WiFi / HSUPA / GPS module
	1 x SIM socket
	1 x 8-bit DIO (4-in/4-out), w/ 2.5 kV isolation protection (optional)

Environmental

Operating Temp.	-25 ~ 55°C (-13 ~ 131°F), ambient w/ air flow
Storage Temp.	-40 ~ 80°C (-40 ~ 176°F)
Relative Humidity	10 ~ 95% @ 55°C (non-condensing)
Vibration	3 Grms/5~500Hz/random operation
Shock	Operating 20G (11ms), Non-operating 60G with HDD
	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
	DC 12V input by 2.5mm power jack (optional)
Power Consumption	Max. 20.5W (19V/1.08A)

Storage

Type	1 x mSATA socket
	1 x SATA III port

Mechanical

Construction	Aluminum alloy
Mounting	Wall-mount
Weight (Net / Gross)	1.575Kg (3.465lb) / 1.7Kg (3.741lb)
Dimensions (W x D x H)	System = 290 x 150 x 40mm (11.3" x 5.89" x 1.57")

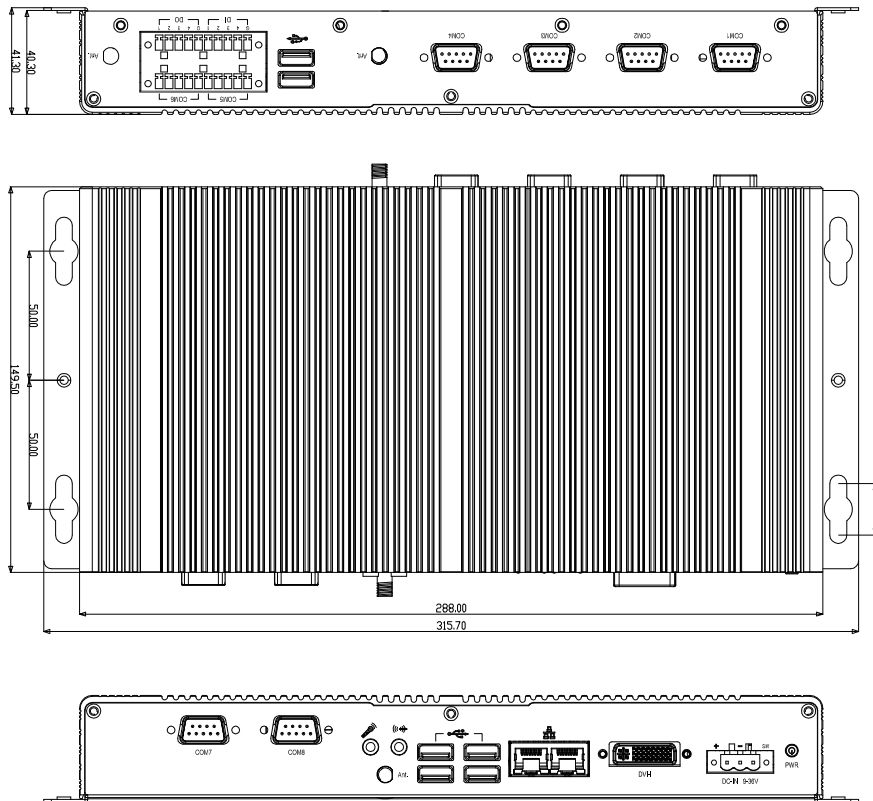
OS Support

Windows XP Embedded / Windows XP Professional / Windows Embedded Professional 7 / Windows Embedded Standard 7

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-IN1130

Intel® Centrino® Advanced-N 6205 WiFi module w/ 10cm & 20cm internal wiring



ANT-H11

1 x 2dBi HSUPA antenna



ANT-D11

1 x WiFi Dual-band 2.4G/5G antenna



HSPA-SI1400

HSUPA 3.75G module kit & internal wiring



8GB SO-DIMM

DDR3-1600 8GB SDRAM

4GB SO-DIMM

DDR3-1333 4GB SDRAM

2GB SO-DIMM

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



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