

ARK-1503

Intel® Atom™ D525/D425 Fanless Embedded IPC with integrated display interface

NEW



Features

- Extremely compact, sealed construction with fanless operation, supports Intel® Atom® D525/D425 up to 1.8 GHz
- Support integrated LVDS interface, with LVDS / 2*USB / Rx / Tx signal (compliant with ITM-5115)
- Supports 2 Giga LAN and 4 USB 2.0 ports
- Supports 1 x RS-232, 1 x RS-232/422/485 with Auto-flow control
- Built-in 1 x Mini PCIe expansion slot for communication module, like WLAN or HSDPA
- Supports external CF socket
- Supports 2.5" SATA HDD and easy to maintain
- DC 12V power input
- IP40

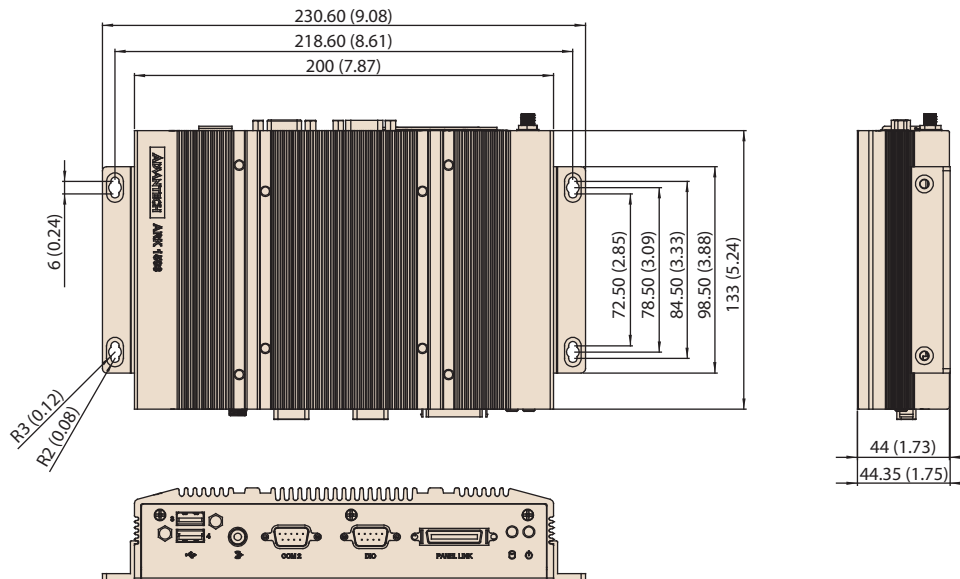


Specifications

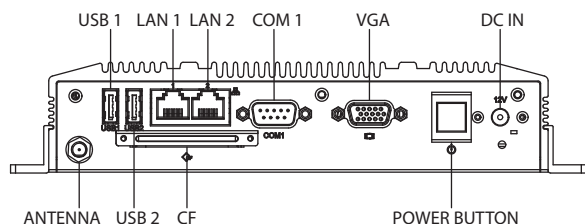
Processor System	CPU	Intel Atom D525/D425
	Max. Speed	1.8 GHz
	System Chipset	ICH8M
	BIOS	AMI 16 MB SPI BIOS
Memory	Technology	Single channel DDR3 1066/1333 MHz
	Max. Capacity	Up to 4 GB SODIMM
	Socket	1 x 204-pin SODIMM
Graphics	Chipset	Intel Gen 3.5 DX9, MPEG2 Decode in HW
	VRAM	Optimized Shared Memory Architecture up to 224 MB system memory
	Interface	VGA: Supports up to 2048 x 1536 @ 60 Hz LVDS: Single channel 24-bit LVDS up to WXGA 1366 x 768
	Dual Display	VGA + LVDS
Ethernet	LAN1	10/100/1000 Mbps Intel 82567V Giga Ethernet Controller, support Wake On LAN
	LAN2	10/100/1000 Mbps Intel 82583V Giga Ethernet Controller, support Wake On LAN
Audio	Interfaces	Line-out
IO Interface	Serial Ports	1 x RS-232, 1 x RS-232/422/485 port, support Auto-flow control
	USB Interface	4 x USB ports, USB 2.0 Compliant
	Digital I/O	8-bit programmable DIO
	Watchdog timer	255-level timer interval, setup by software
	Integrated LVDS Interface	DB36 with LVDS, 2 x USB, Rx/Tx and backlight control
Storage	HDD	Supports one drive bays space for SATA 2.5" HDD (support 9.5 mm height only)
	SSD	Supports one external CompactFlash socket for type I/II CompactFlash disk
Expansion	Mini PCIe	1 x Mini PCIe
Software Support	Microsoft Windows	Windows 7, XP Professional, XP Embedded, WinCE 6.0
Power Requirement	Power Type	AT/ATX
	Power Input Voltage	12 V _{DC}
	Minimum Power Input	DC 12V @ 3A (without supplying power to panel)
Power Consumption	Power Adapter	AC-to-DC, 60W DC12V/5A
	Typical	12 W (without supplying power to panel)
Mechanical	Max.	17 W (without supplying power to panel)
	Construction	Aluminum housing
	Mounting	Desk/wall-mounting
	Dimensions (W x H x D)	230.6 x 133.0 x 44.4 mm (9.08" x 5.24" x 1.75")
Environment	Weight	1.9 kg (4.18 lbs)
	Operating Temperature	With extend temperature peripherals : -20 ~ 60° C, w/ industrial HDD: 0-45C
	Storage Temperature	- 40 ~ 85° C (-40 ~ 185° F)
	Relative Humidity	95% @ 40° C (non-condensing)
	Vibration Loading During Operation	With Compact Flash / 2.5" SATA SSD only: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis
	Shock During Operation	With Compact Flash / 2.5" SATA SSD only: 50 G, IEC 60068-2-27, half sine, 11 ms duration
	EMC	CE/FCC Class A, BSMI, CCC, KCC
	Safety Certifications	CCC, BSMI, KCC

Dimensions

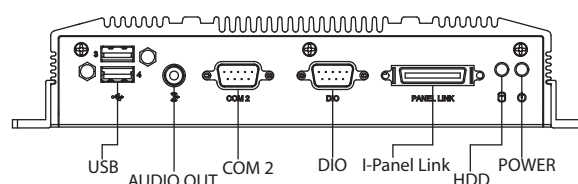
Unit: mm (inch)



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Packing List

Part Number	Description
-	1 x ARK-1503 Unit
-	1 x Utility CD
1960047289T001	1 x Power bracket

Ordering Information

Part Number	Description
ARK-1503F-D6A1E	Intel Atom D525 1.8 GHz, with DB36 LVDS interface
ARK-1503F-D4A1E	Intel Atom D425 1.8 GHz, with DB36 LVDS interface
ARK-1503P-D6A1E	Intel Atom D525 1.8 GHz, with golden finger interface for ITM-5115R-PA1E

Optional Items

Part Number	Description
1757003062	AC-to-DC Adapter, DC 12V/5A 60W, with DC Jack Plug, 0 ~ 40° C for Home and Office Use
1702002600	Power cable 3-pin 180 cm, USA type
1702002605	Power cable 3-pin 180 cm, Europe type
1702031801	Power cable 3-pin 180 cm, UK type
1700000237	Power Cable 3-pin PSE Mark 180cm
WIFI-105E	802.11 b/g/n Mini-PCIe WLAN card
1700001943	Cable SMA/I-PEX 23CM for WLAN module
1750003222	802.11 b/g 5dBi Dipole Antenna for WLAN module