ARK-3390

Intel® Core™ 2 Duo Automation Control System with Two Isolated COM Ports and GPIO

Features

- Fanless, Intel® Core™ 2 Duo Compact Embedded Box IPC
- Supports 9 ~ 34 V wide range DC Power Inputs
- 3 x RS-232/422/485 with Auto Flow Control and 2 x RS-422/485 with isolation
- 5 x USB 2.0 and 1 x Internal USB port for GPS/GPRS/3G dongle
- 2 x 10/100/1000 Base-T Ethernet Ports
- One Mini-PCI expansion slot
- 8-Bit DIO for event/alarm control
- Both CRT and DVI-D Dual Independent Display
- IP40

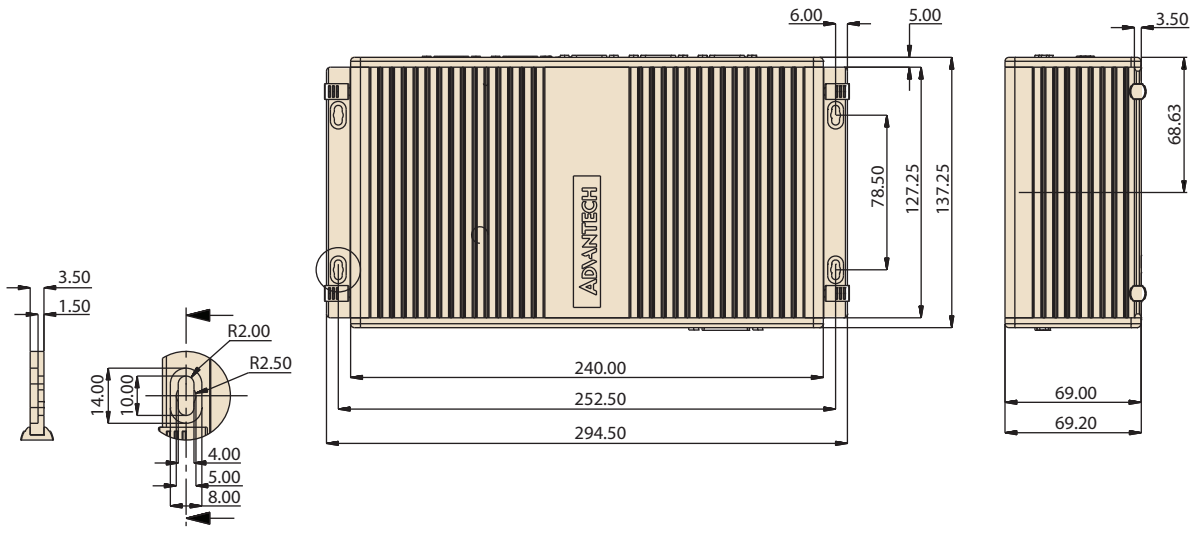
Specifications

Processor System	CPU	Intel Core Duo LV	Intel Core 2 Duo ULV
	Max. Speed	L2400 (1.66 GHz)	U7500 (1.06 GHz)
	Front Side Bus	667 MHz FSB	533 MHz FSB
	System Chipset	945GME + ICH7-M Chipset	
	BIOS	AWARD 4 Mbit, FWH	
Memory	Technology	DDR2 533/667 MHz (945GME)	
	Max. Capacity	2 GB	
	Socket	1 x 200-pin SODIMM	
Graphics	Chipset	Integrated graphics built in to Intel 945GM, Intel 3.5 Generation Integrated Graphics Engine	
	Interface	CRT Interface DVI-D interface 48-bit LVDS interface (Optional)	
Ethernet	LAN1	10/100/1000 Mbps Ethernet controller, supports Wake On LAN	
	LAN2	10/100/1000 Mbps Ethernet controller, supports Wake On LAN	
Audio	Interface	Line-out, Mic-in, Line-in	
I/O Interface	Serial Interface	1 x RS-232 port 3 x RS-232/422/485 ports with Auto Flow Control 2 x RS-422/485 with Isolation 7.5kV	
	USB Interface	5 x USB ports, USB 2.0 Compliant	
	Keyboard/Mouse	1 x PS/2 port, Supports PS/2 Mouse and Keyboard	
Other	Digital I/O	8 bit	
	Watchdog Timer	255 level timer interval, setup by software	
Expansion	Mini PCI	1 x Mini PCI	
Storage	HDD	Supports one drive bay space for SATA 2.5" HDD	
	SSD	Supports one CompactFlash socket for type I/II CompactFlash disk	
Software Support	Microsoft Windows	Vista, XP Professional, XP Embedded	
Power Requirement	Power Type	AT/ATX	
	Power Input Votage	9 V_{DC} ~ 34 V_{DC}	
	Minimum Power Input	9 V @ 5.5 A ⎓ 34 V @ 1.5 A	
	Power Adapter	AC to DC, DC19 V/3.42 A, 65 W	
Power Consumption	Typical	28 W (Intel Core Duo L2400 1.66 GHz)	
	Max.	32 W (Intel Core Duo L2400 1.66 GHz)	
Mechanical	Construction	Aluminum housing	
	Mounting	DIN-rail mounting, Desk/wall-mounting	
	Dimensions (W x H x D)	264.5 x 69.2 x 137.25 mm (10.41" x 2.72" x 5.4")	
	Weight	2 kg (4.4 lb)	
Environment	Operating Temperature	With Industrial Grade CompactFlash disk: 0 ~ 55° C (32 ~ 130° F) With 2.5-inch extended temperature hard disk 0 ~ 45° C (32 ~ 112° F) with air flow	
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)	
	Relative Humidity	95% @ 40° C (non-condensing)	
	Vibration During Operation	With CompactFlash disk: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis. With 2.5-inch hard disk: 1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis.	
	Shock During Operation	With CompactFlash disk: 50 G, IEC 60068-2-27, half sine, 11 ms duration With hard disk: 20 G, IEC 60068-2-27, half sine, 11 ms duration	
	EMC	CE/FCC Class A, CCC, BSMI	
	Safety Certifications	UL, CCC, BSMI	

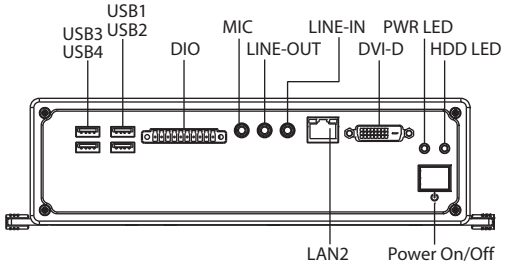
Last updated : 09-July-2009

Dimensions

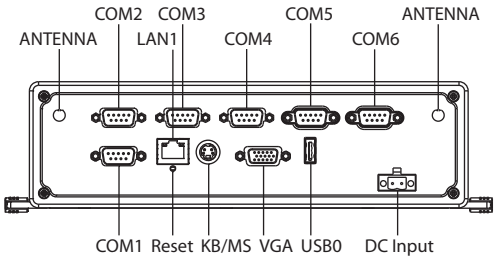
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Packing List

Part Number	Description
-	1 x ARK-3390 Unit
1700060202	1 x PS2 Keyboard/Mouse Cable
1700009001	1 x 2-pin Phoenix to DC-Jack power cable
-	1 x Utility CD
-	China RoHS

Ordering Information

Part Number	Description
ARK-3390-1S1A1E	Intel Core 2 Duo U7500 1.06 GHz, Compact Embedded Box IPC
ARK-3390-1S6A1E	Intel Core Duo L2400 1.66 GHz, Compact Embedded Box IPC

Optional Items

Part Number	Description
1757000222	AC-to-DC Adapter, DC19 V/3.42 A 65 W, with Phoenix Power Plug, 0 ~ 40° C for Home and Office Use
1700001947	Power cable 2-pin 180 cm, USA for ARK-338X
1700001948	Power cable 2-pin 180 cm, Europe for ARK-338X
1700001949	Power cable 2-pin 180 cm, UK for ARK-338X
1960025333N00N	Bracket vesa mounting for ARK-1000, 3000, 4000 Ni
968EMW0016	Purch 802.11 a/b/g Mini-PCI card
1750003222	802.11b/g 5dBi Dipole Antenna
1700001854	A Wi-Fi internal wire SMA/I-PEX 11CM