

ARK-4180

**Expandable PCI-104 Performance
Solution with -40 ~ 75° C
Operating Temperature**



Features

- Fanless, rugged, compact embedded box IPC
- Built-in Celeron® 1.0 GHz (512 KB L2 Cache)/600 MHz CPU
- Two serial ports and six USB 2.0 ports
- VGA, LAN, Audio, LPT and KB/MS ports
- Modularized and stackable design
- Supports 1 x PCI-104 expansion slot
- Supports -40 ~ 75° C operating temperature
- IP40

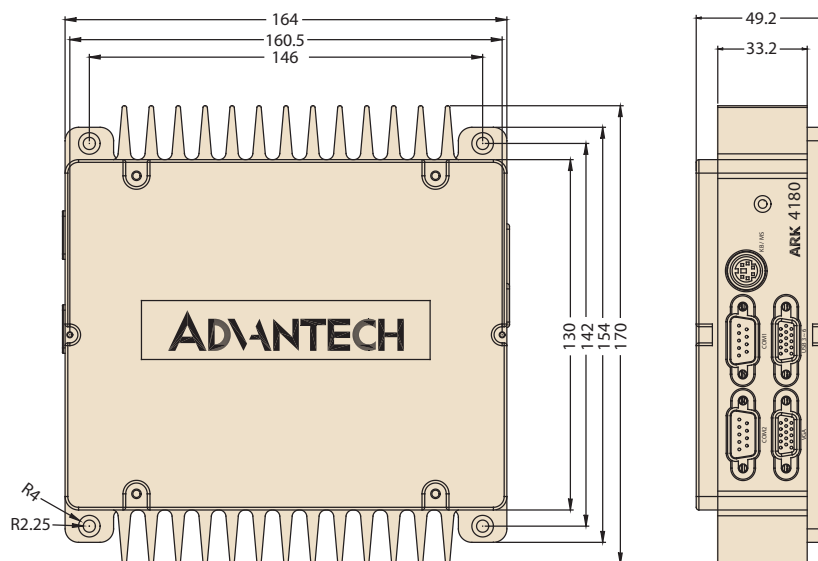


Specifications

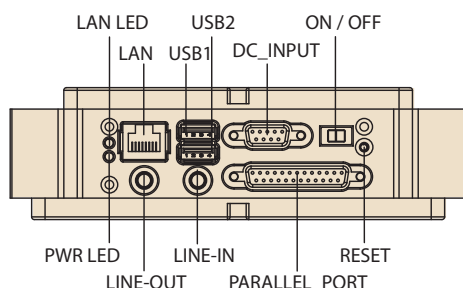
Processor System	CPU	Intel Celeron M ULV	Intel Celeron M ULV
	Max. Speed	373 (1 GHz)	600 MHz
	Front Side Bus	400 MHz FSB	400 MHz FSB
	System Chipset	855GME	852GM
	BIOS	AWARD 4 Mbit, FWH	
Memory	Technology	DDR 333/400 MHz	
	Max. Capacity	1 GB	
	Socket	1 x 200-pin SODIMM	
Graphics	Chipset	Built-in Intel 855GME/852GM	
	Interface	CRT interface 36-bit LVDS (optional)	
Ethernet	LAN	10/100 Mbps Ethernet Controller	
Audio	Interface	Line-in, Line-out	
I/O Interface	Serial Ports	2 x RS-232	
	Parallel Port	1 x Parallel port, Compliant with IEEE1284	
	USB Interface	6 x USB ports, USB 2.0 Compliant	
	Keyboard/Mouse	1 x PS/2 port, Supports PS/2 Mouse and Keyboard	
Other	Watchdog Timer	255 level timer interval, setup by software	
Expansion	PC/104	PCI-104	
Storage	HDD	Optional	
	SSD	Supports CompactFlash socket for type I/II CompactFlash disk	
Software Support	Microsoft Windows	XP Professional, XP Embedded, CE .NET 6.0	
Power Requirement	Power Type	AT	
	Power Input Voltage	AT, +5 V ± 5%, +12 V ± 5% (Optional) (5 V only, 12 V optional for PC104 add on card and LCD inverter)	
	Minimum Power Input	+5 V @ 1.63 A	
	Power Adapter	5 V @ 7 A, 12 V @ 3 A, 65 W	
Power Consumption	Typical	10.65 W (Intel ULV Celeron M 1 GHz)	
	Max	12.5 W (Intel ULV Celeron M 1 GHz)	
Mechanical	Construction	Aluminum housing	
	Mounting	DIN-rail mounting; Desk/wall-mounting; VESA mounting	
	Dimensions (W x H x D)	164 mm x 49.2 mm x 170 mm (6.46" x 1.94" x 6.69")	
	Weight	2 kg (4.4 lb)	
Environment	Operating Temperature	-40 ~ 75° C (-40 ~ 167° F)	
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)	
	Relative Humidity	95% @ 40° C (non-condensing)	
	Vibration During Operation	5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis.	
	Shock During Operation	50 Grms, IEC 60068-2-27, half sine, 11 ms duration	
	EMC	CE/FCC Class A, CCC, BSMI	
	Safety Certifications	UL, CCC, BSMI	

Dimensions

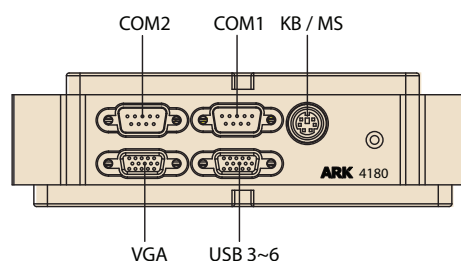
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Packing List

Part Number	Description
-	1 x ARK-4180 unit
1700003933	1 x Wire 9P 20 cm D-SUB TO AT POWER ARK-4170/80 use
1700060202	CABLE 6P-6P-6P PS/2 KB & MOUSE 20 cm
1700005456	Cable DSUB15 (F) to 4*USB 20 cm for ARK-4180
	1 x Driver/Utility CD/manual

Ordering Information

Part Number	Description
ARK-4180Y-1S0A1E	Intel Celeron M ULV 1 GHz Rugged embedded box IPC
ARK-4180Y-AS0A1E	ARK-4180Y-1S0A1E with 512 MB memory, 1 GB CF, Windows XP Embedded
ARK-4180Y-1M0A1E	Intel Celeron M ULV 600 MHz Rugged embedded box IPC
ARK-4180Y-AM0A1E	ARK-4180Y-1M0A1E with 512 MB memory, 1 GB CF, Windows XP Embedded

Optional Items

Part Number	Description
1757001117	Adapter 5 V/10 A, 12 V/5 A 110 W, 100 ~ 240 V
1757001817	Adapter 5 V/7 A, 12 V/3 A 65 W for ARK-4153/4180
1702002600	Power cord (USA)
1702002605	Power cord (Europe)
1702031801	Power cord (UK)
1700000596	Power cord (China)
196002533N00N	VESA mounting for ARK-1000, 3000, 4000
ARK-4100-00A1E	ARK-4100 2nd stacking kit

Embedded OS (Only available for T-Parts OEM, and CTOS service)

Part Number	Description
2070001573	XPE FP2007 P4 & PM-A (to 915) V3.0 ENG
2070001580	CE60 Pro P-M (852/855) 2Com V1.0 ENG