

ARK-4153

**Expandable PC/104+ Solution with
-40 ~ 75° C Operating Temperature**

NEW



Features

- Fanless, rugged, compact embedded box IPC
- Built-in AMD® Geode™ LX800, 500 MHz processor
- 1 x RS-232/422/485, 3 x RS-232, Dual LAN and VGA
- Embedded 128 MB/1 GB onboard Flash and 256 MB Industrial DDR SDRAM
- Modularized and stackable design
- Anti-vibration and shock-resistant
- Supports 1 x PC/104+ expansion slot
- Supports -40 ~ 75° C operating temperature
- IP40

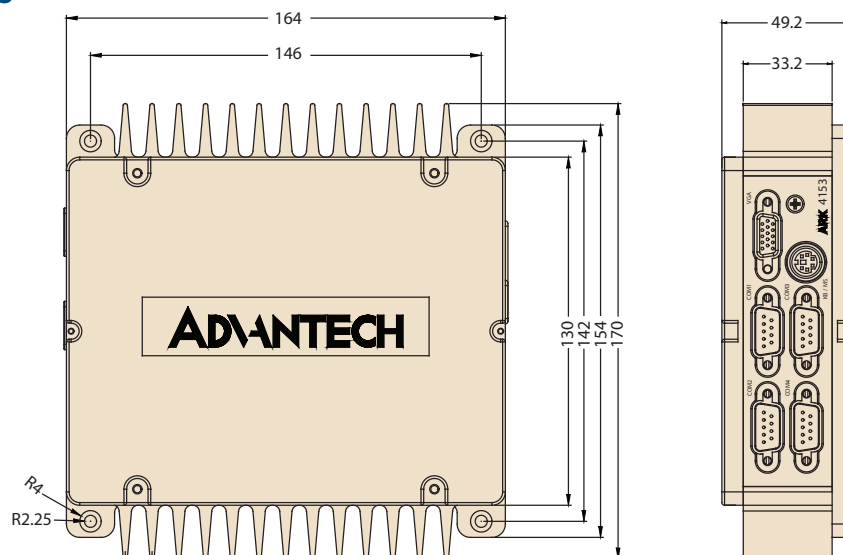


Specifications

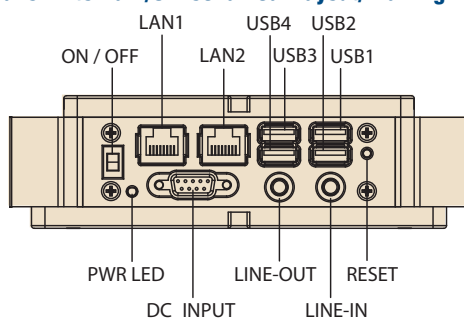
Processor System	CPU	AMD Geode LX800
	Max. Speed	500 MHz
	Front Side Bus	400 MHz FSB
	System Chipset	AMD Geode CS5536
	BIOS	AWARD 4 Mbit, FWH
Memory	Technology	DDR 333/400 MHz
	Max. Capacity	onboard 256 MB
Graphics	Chipset	Built-in AMD Geode LX800 processor
	Interface	CRT interface 18-bit TTL (optional)
Ethernet	LAN 1	10/100 Mbps Ethernet Controller
	LAN 2	10/100 Mbps Ethernet Controller
Audio	Interface	Line-in, Line-out
I/O Interface	Serial Ports	4 x RS-232, (1 x RS-422/485 optional by cable and jumper setting, RS-485 supports auto flow control)
	USB Interface	4 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 (Optional)
	Watchdog Timer	255 level timer interval, setup by software
Expansion	PC/104	PC/104+
Storage	HDD	Optional
	SSD	Supports onboard Flash 128 MB/1 GB
Software Support	Microsoft Windows	XP Professional, XP Embedded, CE .NET 6.0
Power Requirement	Power Type	AT
	Power Input Voltage	AT, +5 V $\pm$ 5%, +12 V $\pm$ 5% (Optional) (5 V only, 12 V optional for PC104 add on card and LCD inverter)
	Minimum Power Input	+5 V @ 1.35 A
	Power Adapter	5 V/8 A 40 W
Power Consumption	Typical	5.05 W
	Max	6.05 W
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	7 Grms, 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis. /MIL-STD 514.5C-3
	Shock During Operation	70 G, IEC 60068-2-27, half sine, 11 ms duration /MIL-STD 516.5
	EMC	CE/FCC Class A, CCC, BSMI
	Safety Certifications	UL, CCC, BSMI

Dimensions

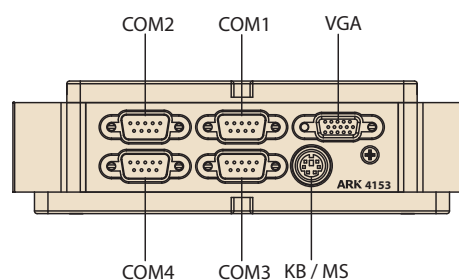
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Rear Panel External I/O Mechanical Layout/Drawing



Packing List

Part Number	Description
-	1 x ARK-4153 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
	1 x Driver/Utility CD/manual
	1 x Traditional Chinese user manual for CCC
	1 x China RoHS
	1 x RS-422/485 internal cable

Optional Items

Part Number	Description
1757002181	Adapter 5 V/8 A 40 W IPU45E-102 for ARK-4153
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)
1960025333N00N	VESA mounting for ARK-1000, 3000, 4000
ARK-4100-00A1E	ARK-4100 2nd stacking kit

Ordering Information

Part Number	Description
ARK-4153Y-1L0A1E	AMD Geode LX800, onboard 256 MB memory and 1 GB Flash Rugged embedded box IPC
ARK-4153Y-BL0A1E	ARK-4153Y-1L0A1E with WinCE6.0

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

Part Number	Description
2070001612	CE60 Pro GX3 4Com V1.0 ENG
2070000729	CE 5.0 Pro Plus Eng for GX3