

ARK-7480

All-In-One, High Performance Embedded Box computer



Features

- Supports Embedded Intel® Pentium®4/Celeron®D processor
- CRT, DVI and LVDS, display interface with Dual Display capability
- Anti-vibration HDD and PC Board to ensure maximum reliability
- One side access for all external wiring connections, easy integration, and easy maintenance
- Supports wall mounting in horizontal or vertical direction

Introduction

The ARK-7480 Embedded Box Computer is an All-In-One, powerful and robust unit. The high performance ARK-7480 series is powered by high performance embedded Intel Pentium 4 or Celeron D processors up to 2.8 GHz. It supports DDR SDRAM up to 2 GB. The ARK-7480 offers three PCI slots for user expansion. The ARK-7480 Embedded Box Computer supports abundant I/O ports: six USB 2.0 ports, six COM ports, as well as a DVI, LVDS and VGA display interface and 3.5" HDD bay. An optional external storage expansion kit can be added for CDROM and card readers. It is ideally suitable for diversified embedded system applications requiring the highest processor performance and expandability, such as machine automation and industrial plant and cabinet integration.

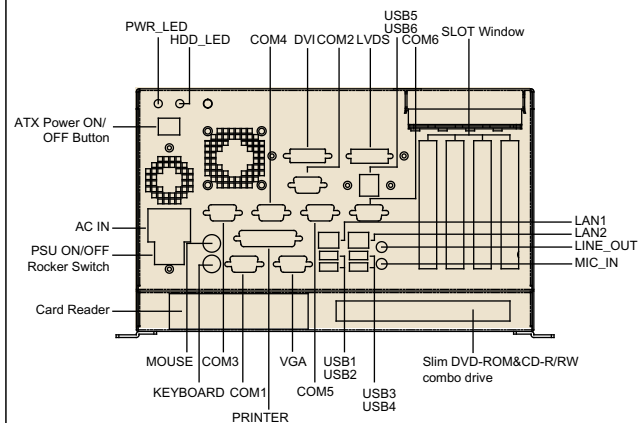
Specifications

Processor System	Processor Support	Supports Socket 478, Embedded Intel Celeron D and Pentium 4 up to 2.8 GHz
	Chipset	Intel 852 GME Graphics Memory Controller Hub (GMCH) chipset Intel ICH4 chipset
	BIOS	4 Mbit Flash BIOS, supports Plug&Play, APM 1.2
	Memory	Built-in 2 x 184-pin DIMM sockets, supports DDR SDRAM up to 2 GB
Display	Chipset	Integrated Graphics; Intel 852 GME GMCH chipset, utilizing Intel Extreme Graphics 2 technology
	Memory	Dynamic video memory allocation up to 64 MB
	Interface	CRT Interface 36-bit LVDS interface DVI Interface, compliant with DVI specification 1.0
Ethernet	Controller	Dual Intel 82551 ER 10/100BaseT Ethernet Controllers
	Interface	Built-in dual RJ45 ports as LAN1 and LAN2
Audio	Controller	Built-in Audio controller on Intel ICH4 chipset Realtek® ALC202 AC97 Codec AC97 3D surround stereo sound, dual 2.2 W amplifier
	Interface	Built-in line-in and line-out connectors
Others	Watchdog Timer	255 levels timer interval, setup by software
	Keyboard/Mouse	Two mini-DIN connectors support PS/2 keyboard and PS/2 mouse
	Serial Ports	Support 6 x serial ports: COM1, COM3, COM4, COM5 and COM6: RS-232 COM2: RS-232/422/485 by internal Jumper selection
	Parallel Port	1 x parallel port
	USB 2.0 Ports	Supports 6 x USB 2.0 Ports for model ARK-7480-100A1 Supports 4 x USB 2.0 Ports for model ARK-7480-200A1
Expansion Slot	PCI	3 x PCI Expansion Slots
	Mini PCI	1 x Mini PCI Slot, access from the bottom PCI Rev. 2.2 Compliant
Storage Drive Bay	SSD	Supports 1 x CompactFlash socket for Type I/II CompactFlash disk
	HDD	Supports 1 x drive bay space for 3.5" HDD
Extended Drive Bay (only for Model ARK-7480-200A1)	Card Reader Drive	Built-in USB 2.0 Card Reader drive supports: SecureDigital Card, MultiMedia Card, Memory Stick (Pro), 3.3 V SmartMedia Card, xD-Picture Card, Type I/II CompactFlash Card and IBM Microdrive
	Optical Drive	Slim built-in DVD-ROM&CD-R/RW of 8 D/24 W/24 E/24 R Combo Drive

Specifications Cont.

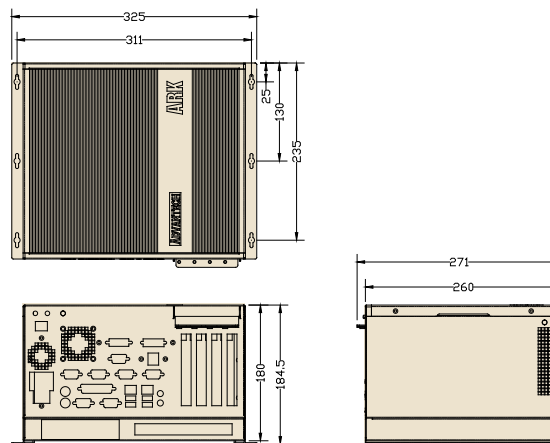
Front Panel External I/O	1 x PS/2 Mouse connector	
	1 x PS/2 Keyboard connector	
	5 x RS-232 serial port as COM1, COM3, COM4, COM5 and COM6 connector	
	1 x RS-232/422/485 serial port connectors as COM2 connector	
	6 x USB 2.0 connectors as USB1~USB6	
	2 x RJ-45 Connectors as LAN1 and LAN2	
	1 x Printer port connector	
	1 x VGA/CRT port Connector	
	1 x DVI port connector	
	1 x LVDS port connector	
1 x Line-out connector		
1 x Line-In connector		
Internal AC-to-DC ATX Power Supply Unit	Output Rating	AC 250 W, ATX
	Input Voltage	110 V _{AC} ~ 240 V _{AC}
	Power Switch	One on/off rocker switch and one ATX on/off button
Mechanical	Construction	Aluminum-Metal housing
	Mounting	Supports table and wall-mounting
	Dimensions	For model ARK-7480-100A1: 295 x 150 x 260 mm For model ARK-7480-200A1: 295 x 180 x 260 mm
	Weight	9.8 kg (20.1 lb)
Environment	Operation Temperature	0 ~ 45° C
	Relative Humidity	95% @ 40° C (non-condensing)
	Vibration Loading During Operation	1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz 10 Oct./min., 1hr/axis.
	Shock During Operation	10 G, IEC 60068-2-27, half sine, 11ms duration
	Safety	UL, CB
	EMC	CE/FCC

Front Panel External I/O Mechanical Layout/Drawing



Dimensions

Unit: mm



Packing List

Description	Part Number
1 x ARK-7480 Unit x Table Mounting Kit	(P/N: 1960003950 x 2 pieces)
1 x Wall Mounting Kit	(P/N: 1960003949 x 2 pieces)
1 x Utility CD	
1 x Table Mounting Kit	(P/N: 1960003950 x 2 pieces)
1 x IDE HDD Cable, 40/40/40, 60cm	(P/N: 1700001757)

Ordering Information

Part Number	Description
ARK-7480-100A1E	Socket 478, Pentium 4 based Embedded Box Computer, with LVDS, DVI, 6 x USB 2.0, 1 x RS-232, 5 x RS-232/422/485, dual Fast Ethernet, audio and 3 PCI slots
ARK-7480-200A1E	Socket 478, Pentium4 based Embedded Box Computer, ARK-7480-100A1 with extended drive bay

Optional Items

Part Number	Description
2070000635	XPE SP2 OS image and license for ARK-7480, English version (440 MB)