ARK-1351

GX1-300 with PC Card Slot, 2 x LAN, 2 x USB, 2 x RS-232 Ultra Compact, Fanless, Embedded Box Computer



Features

- Built-in GX1-300 MHz CPU with 128 MB SDRAM
- Dual serial and USB ports
- One PC card slot, supports PCMCIA and CardBus cards
- Intensive communication and control capacity
- Ultra compact size, robust construction with fanless operation
- Windows[®] CE.NET ready solution

Introduction

The ARK-1351 is an ultra compact, fanless fully sealed, robust embedded box computer, designed for space critical applications that require low power consumption. All electronics are protected in a ruggedized, sealed housing. No external cooling is needed. Featuring dual LAN dual USB, dual RS-232 communication ports, and PC Card interfaces that bring comprehensive connective capability to fulfill diverse application requirements. Therefore, the ARK-1351 is an ideal solution for stand-alone and embedded gateway applications.

Intensive Communication and Control Capacity

Rich communication interface: Ethernet, four Serial Ports, dual USB and a PC card slot make the ARK-1351 an ideal solution for diverse applications:

- Data communication gateway for navigation and transportation
- · POI/Kiosk control for self-service of ticketing, payment and information preview
- Security gateway, and web server

Ultra Compact Size with Fanless Operation

- Small dimensions: 188.8 x 106.5 x 35.5 mm (7.5" × 4.2" × 1.4")
- Fanless operation in an aluminum sealed construction
- Support desktop/wall/Din-Rail mounting under space critical installation conditions

Optimized Integration in a Robust Casting Construction

- · Few parts, zero cable, easy integration, easy maintenance, to reduce investment
- System is "Ready-to-Run" as supplied
- Accept wide range of DC power input of DC 10 V ~ DC 30 V

Specifications

Processor Core Logic System

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• CPU	AMD® Geode® GX1-300 MHz processor
 Chipset 	AMD CS5530A
BIOS	AWARD® 256 KB Flash BIOS
 System Memory 	Built-In 128 MB SDRAM
Display	
 Chipset 	AMD CS5530A
 Display Memory 	1 ~ 4 MB video frame buffer share the system memory
 Display Interface 	CRT Interface by a D-Sub 15-pin connector
Ethernet	
 Ethernet Controllers 	Dual Realtek® RTL8139C 10/100BaseT Ethernet controllers
Ethernet Connectors	2 x BJ45
PC Card	
1 x PC Card Slot	Support CardBus (Card-32) card and 16-bit (PCMCIA 2.1/JEIDA4.2) card
	Support +5 V, +3.3 V and +12 V @ 120 mA working
	power
Serial Port	
2 × Standard RS-232	Speed: RS-232: 50 ~ 115.2 Kbps
Other	
 Keyboard/Mouse 	Supports PS/2 Mouse and PS/2 Keyboard
 USB 	2 x USB ports, USB 1.0 compliant
Software Options	
Windows CE.NET 5.0 (bundled in ARK-1351-2G0A1)	

All product specifications are subject to change without notice

Storage

Supports CompactFlash socket for type I/II CompactFlash disk

Front Panel External I/O

- 2 x RJ-45 Ports as LAN1 and LAN 2, Supports Dual Ethernet Connection
- 1 x PC Card (PCMCIA/CardBus) Slot
- 2 x USB ports as USB 1 and USB 2, Supports Dual USB Connection



Mechanical

- Construction Aluminum housing
- Mounting
- Din-Rail mounting, Desk/wall-mounting
- Dimensions (W x H x D) 188.8 x 35.5 x 106.5 mm (7.5" x 1.4" x 4.2")

0.8 ka

Weight

Power Supply

- Input Voltage 10 - 30 V DC, reversed wiring protection
- 0.6 A max under 24 V power input, or 1.2 A max under Power Consumption +12 V power input
- Power Requirement Typical 1 A @ +24 V power input
 - Typical 1.5 A @ +12 V power input

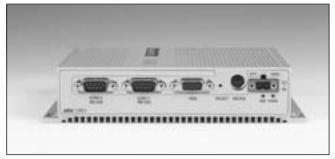
Environmental Specification

- Operation Temperature -10 ~ 55° C (14 ~ 131° F)
- Related Humidity 95 % @ 40° C
- Vibration During Operation
- 2 G, IEC 68-2-6, sine, 5 ~ 500 Hz, 10 ct./min, 1 hr/axis
- Shock During Operation When system is wall mounted: 50 G, IEC 68-2-27, half sine, 11 ms duration

When system is DIN-rail mounted: 20 G. IEC 68-2-27. half sine, 11ms duration

Rear Panel External I/0

- 2 x Serial Ports as COM1 and COM2, Supports RS-232 Interface
- 1 x VGA/CRT Connector
- 1 x Reset Button
- 1 x PS/2 Connector: Supports PS/2 Keyboard and PS/2 Mouse
- 1 x Phoenix Type of Power Input Connector



Packing List

- 1 x ARK-1351 Unit
- 1 x DIN-Rail Mounting Kit
- 1 x PS2 Keyboard/Mouse Cable
- 1 x Driver Utility CD

Ordering Information

- ARK-1351-1G0A1
- AMD GX1-300 MHz Embedded Box Computer with PC card slot, 2 x LAN, 2 x USB, 2 x COM and 128 MB SDRAM
- ARK-1351-2G0A1
- AMD GX1-300 MHz Embedded Box Computer with PC card slot, 2 x LAN, 2 x USB, 2 x COM, 128 MB SDRAM, and 128 MB Compact Flash Disk preinstalled with Windows CE.NET 5.0 Professional Plus

Dimensions

