ARK-3382

Four LAN Fanless Embedded Box Computer



Features

- Four 10/100 Base-T Fast Ethernet ports, with lan bypass support on LAN 2 and LAN 3
- Built-in Intel[®] Ultra Low Voltage Celeron[®] or Intel Pentium[®] M Low Voltage processor
- Sealed fanless construction
- Anti-Vibration to ensure maximum reliability
- Easy Integration, easy maintenance, few parts .
- Wide range of power source







Microsoft* Windows* Embedded CE FCC

Introduction

The ARK-3382 fanless Embedded Box Computer combines four LAN port interfaces and other industrial features into a rugged, compact metal chassis for Gigabit network intensive based applications. The fanless operation provides noise protection when deployed in external environments. The ARK-3382 fanless Embedded Box Controller is ideally suited for embedded PC applications. All electronics are protected in a compact sealed housing for convenient deployment where space and environment are critical.

Multiple LAN Port Capacity

The multiple LAN port interfaces consists of four Fast Ethernet networking ports, in addition to the LAN bypass function to prevent network problems when the platform shuts down, designed for security gateway applications.

Highly Robust Casting Construction

- Fanless operation in aluminum sealed construction
- A special cushioned design that absorbs vibration to ensure maximum reliability under harsh conditions

Highly Compact Size

 With its maximum mounting height of 69 mm, the ARK-3382 can be used under space critical installation conditions

Optimized Integration

- · Few parts, easy integration, easy maintenance to reduce investment
- Systems are supplied "Ready-to-Run"
- Long life cycle support for product continuity

Wide Range of Power Sources

 Wide range of DC 12 V ~ 24 V power source offers flexibility of power input for various automation environments.

High Computing Performance

Scalable Low Voltage and Ultra Low Voltage Pentium M class processor systems with Ethernet networking capability which gives high computing performance

Specifications

Processor Core Logic System

- CPU
- Intel Ultra low voltage Celeron or Intel Pentium M low voltage processor ULV Celeron M 600 MHz (ARK-3382-1M0A1) LV Pentium M 1.1 GHz (ARK-3382-1S1A1) LV Pentium M 1.4 GHz (ARK-3382-1S4A1)

•	System	Chipset

- BIOS
- System Memory
- Display
- Chipset
- Display Interface

Fthernet

Ethernet Controller

1 x Intel 82551ER 10/100Base-Tx Fast Ethernet controller as LAN1 controller as LAN2, LAN 3 and LAN4

255 levels timer interval, setup by software

Intel® 852GM GMCH or Intel 855GME chipset

4 Mbit Flash BIOS, supports Plug & Play, APM 1.2

Intel[®] ICH4 chipset

1 x 200-pin SO-DIMM sockets

1 x 200-pin DDR S)-DIMM, Max. 1 G

400 MHz FSB

CRT Interface

36-bit LVDS interface

3 x Realtek® RTL8139DL 10/100Base-Tx Ethernet LAN Bypass support on LAN 2 and 3

Other

- Watchdog Timer
- Keyboard/Mouse
- Supports PS/2 mouse and PS/2 keyboard USB 2.0 compliant
- USB

Software Options

Windows XP Embedded, Windows 2000/XP

Storage

Supports drive bay space for 2.5" HDD Supports CompactFlash socket for type I/II CompactFlash disk











ARK-3382

(P/N: 1700060202)

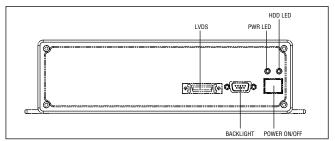
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Front Panel External I/O

- 1 x LVDS Port by D-Sub Connector
- 1 x Backlight On/Off Control Connector
- 1 x Power On/Off Button

Front Panel External I/O Mechanical Layout/Drawing



Mechanical

•	Construction	Aluminum housing
•	Mounting	Din-Rail mounting
		Desk/wall-mounting
•	Dimensions (W x H x D)	264.5 mm x 69.2 mm x 137.2 5 mm
		(10 41" x 2 72" x 5 4")

Weight

2 kg

Power Supply

- Output Rating 46 W Input Voltage 12 VDC ~ 24 VDC, Typical 12 VDC @ 4.5 A,
 - 16 VDC @ 3.4 A, 19 VDC @ 2.9 A, 24 VDC @ 2.3 A

Environment Specifications

- OperatingTemperature When system is equipped with Industrial Grade CompactFlash disk only -20 ~ 60° C
 - When system is equipped with 2.5-inch hard disk 0~45°C
- Relative Humidity 95 % @ 40 °C (non-condensing)
- Vibration Loading During Operation

When system is equipped with CompactFlash disk only: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis. When system is equipped with 2.5-inch hard disk: 1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz,

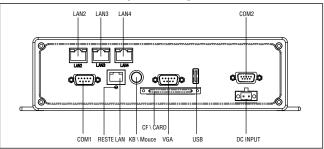
1 Oct./min, 1 hr/axis.

- Shock During Operation When system is equipped with CompactFlash disk only: 50 G, IEC 60068-2-27, half sine, 11 ms duration When system is equipped with hard disk : 20 G, IEC 60068-2-27, half sine, 11 ms duration EMC Approved CE. FCC
- UL
- Safety Approved

Rear Panel External I/0

- 1 x RS-232 Series Port as COM1
- 1 x Serial Port Supports RS-232/422/485 interface as COM2 (Note: The default setting of COM2 is RS-232. The RS-422/485 mode of COM2 can be support via replacing the internal cable and adjust the jumper inside of system)
- 4 x RJ45 Port: Supports Four Fast Ethernet Connectors
- 1 x PS/2 Connector
- 1 x Reset Button
- 1 x VGA/CRT Connector
- 1 x USB 2.0 Connector
- 1 x Phoenix Type Power Input Connector

Rear Panel External I/O Layout/Drawing



Packing list

- 1 x ARK-3382 Unit
- 1 x DIN-Rail Mounting Kit

1 x PS2 Keyboard/Mouse Cable

- 1 x Utility CD
- 1 x Flat Cable support RS-485/RS-422 mode for COM2 serial port

• 1 x 2-P Phoenix to DC-Jack power cable

Ordering Information

- ARK-3382-1M0A1
- ARK-3382-1S1A1

ARK-3382-1S4A1

ULV Celeron M 600 MHz Embedded Box Computer, with VGA/LVDS, Four 10/100Baset Fast Ethernet LV Pentium M 1.1 GHz Embedded Box Computer, with VGA/LVDS, Four 10/100Baset Fast Ethernet LV Pentium M 1.4 GHz, Embedded Box Computer, with VGA/LVDS, Four 10/100Baset Fast Ethernet

Power cable 2-pin 180 cm, USA for ARK-338X

Optional Items

- 1757000222 AC-to-DC Adapter DC19 V/3.42 A 65 W, with Phoenix Power Plug, 0° C ~ 45° C for Home and Office Use
- 1700001947
- 1700001948 Power cable 2-pin 180 cm, Europe for ARK-338X
- 1700001949 Power cable 2-pin 180 cm, UK for ARK-338X
- 2070000521 XPE SP1 OS Image and License for ARK-3380/1/2/9. English Version (440 MB)
- 2070000636 XPE SP2 OS Image and License for ARK-3380/1/2/9, English Version (600 MB)
- 2070000574 XPE SP1 OS Image and License for ARK-3380/1/2/9, Traditional Chinese Version (477 MB) 207000637
 - XPE SP2 OS Image and License for ARK-3380/1/2/9, Japanese Version (600 MB)

