



Features

- Fanless Industry Embedded platform
- Intel® Atom N270 1.6 GHz Processor, 533 MHz FSB
- Intel® 945GSE North & ICH 7-M South Bridge Chipset
- On board DDR 2 memory + SO-DIMM, up to 2 GB w/o ECC
- 1 Mini PCI & 1 Mini PCI-E expansion slot
- Dual CF, 1 removable & 1 internal CF slot
- Supports 2 RS-232/485 and 4 RS-232
- Supports 2 isolation CAN & isolation D-I/O
- DC 9V ~ 30V power input

Cable-Free

Specifications

Fanless platform

- Low power low operating temperature
- Fanless Aluminum Alloy Embedded System

Dimensions

- 208 (W) x 66.5 (H) x 230 (D) mm, Compact size

Processor

- Supports Intel® Atom N270 1.6 GHz low power Processor
- 437 pins package, 533 MHz FSB, 512KB L2 Cache

Chipset

- Intel® 945GSE North & ICH 7-M South Bridge Chipset

Memory

- On board 512MB + 1 SO-DIMM Socket,
Up to 2 GB w/o ECC, 533 MHz DDR 2 Memory

BIOS

- Award System BIOS
- Supports Console Redirection & Power On After Power failure

Disk Drive Storage

- 1 channel SATA interface + 1 internal CF module slot

Expansion

- 1 Mini PCI + 1 Mini-PCI-E expansion slot

Ethernet

- 1 Realtek 8111C 100/1000 Mbps LAN interface with Wake-On-LAN & DMI

Watchdog timer

- Programmable WDT from 1 to 255 seconds/minutes

Display Function

- Supports high resolution VGA display

Hardware Monitor

- Monitors Voltage, Temperature

Supports RTC & CMOS RAM

- Supports Real Time Clock feature
- 256 bytes CMOS RAM built-in chipset

Audio

- ALC662-GR Codec supports Speaker-out

Support Hot Swappable CF

- Supports Hot swappable external CF slot

Super I/O

- ITE 8712 & Fintek 81216 Super I/O for KB, MS, COM, Thermal monitor, Voltage monitor

Isolation CAN

- 2 DB-9 isolation CAN 2.0B
CAN controller support by NXP LPC-1756 ARM processor

Smart Battery Interface

- Supports DC output & Smbus for Smart Battery Kit

RS-232 / 485 supports

- 2 DB-9 RS-232/485, 4 DB-9 RS-232 w/ optional DC-output

Supports Digital I/O w/ isolation protection

- 3 D-In, supports Dry / Wet contact, low level 0~3V, High level 10 ~ 50V. 2500V isolation protection
- 2 D-Out, 500 mA drive capability. 2500V isolation protection

Front panel Extend I/O

- 2 DB-9 for RS-232, 2 DB-9 for isolation CAN 2.0B, 2 USB
- 1 Hot Swappable CF slot, 4 LED, Power switch & Reset

Rear panel Extend I/O

- Screw-Lock DC-9 ~ 30V power input, 3-pin connector
- 2 DB-9 for RS-232/485, 2 DB-9 for RS-232
- 1 DB-9 for 3 D-in + 2 D-out, 1 DB-15 for VGA
- 4 USB, 1 RJ-45 100/1000 Mbit LAN connector
- 1 Speaker out connector
- Power LED + HDD LED, 1 Power button

Internal I/O interface

- 1 Mini PCI + 1 Mini-PCI-E expansion slot
- 1 CF slot, 1 SATA storage interface
- Total up to 4 D-In, 4 D-Out internal connector
- 1 x 5.1 channel Audio, CD-in, pin header
- 1 x dual channel 18-bit LVDS connector

Power Supply

- DC: 9V~30V / 1.5~5 A input

Power ON/OFF mode

- AT or ATX Power ON/OFF mode

Environments

- Operating Temperature: -20°C ~ 50°C
- Storage Temperature: -20°C ~ 80°C
- Relative humidity: 10% ~ 90% (Non-condensing)

Certification

- CE Class A
- FCC Class A

Ordering Guide

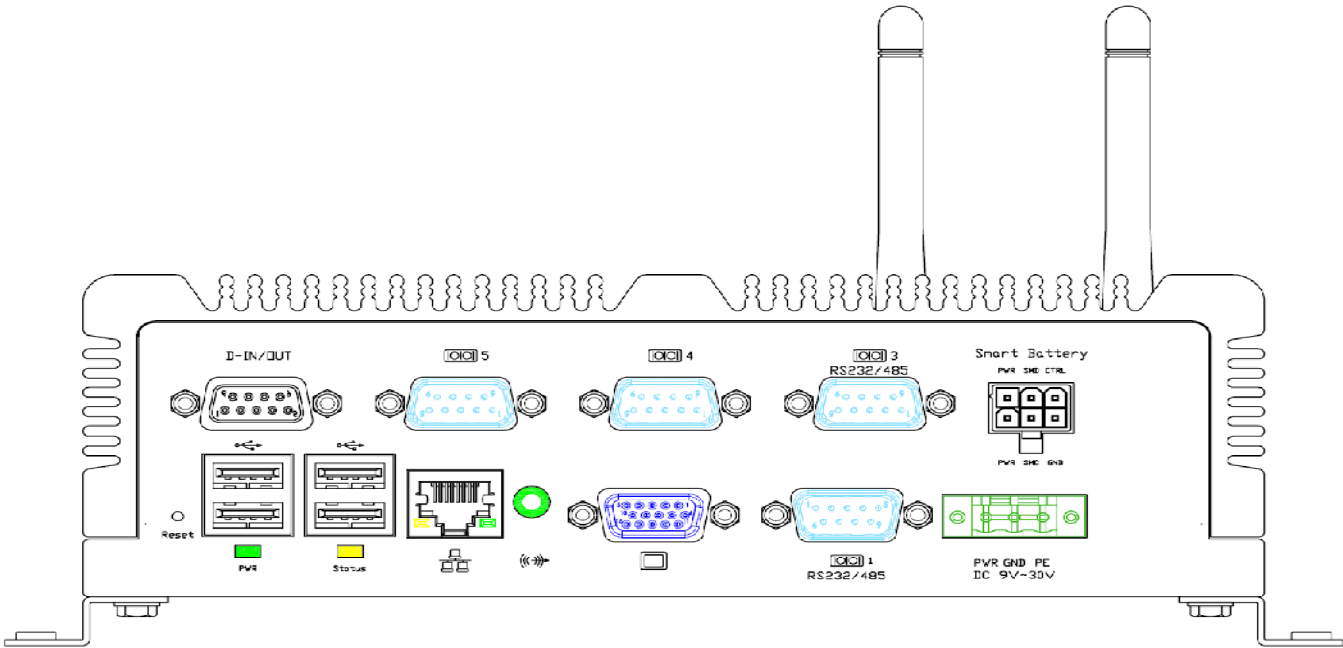
Specification may change without notice

Ordering NO.	CPU	Memory	LAN / USB / CF	DB-9 RS-232/485	PCI-32 slot	Isolation CAN	Isolation D-I/O
Pipal 2040C-835	N270 1.6GHz	512MB	1 GE/ 6 USB/ 2 CF	232/485 x2, 232 x4	N/A	2	3 D-IN, 2 D-OUT

Optional order :

- 60W / 120W Power Adapter, HDD, SODIMM Memory
- Wireless LAN Module, Anti-Vibration HDD drive bay

Pipal 2040C rear I/O



Dimension: without mounting kit 208 W x 66.5 H x 230 D mm
 with mounting kit 235.6 W x 76.5 H x 230 D mm

Pipal 2040C front I/O

