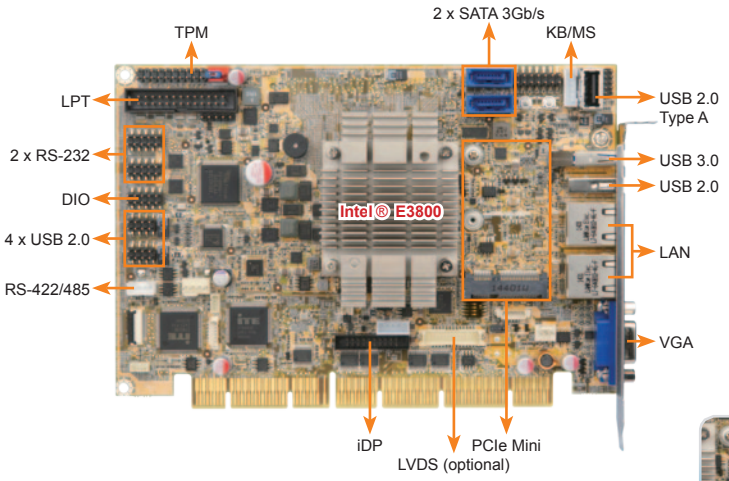
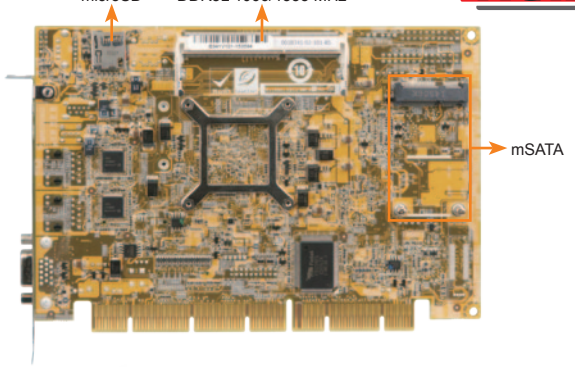
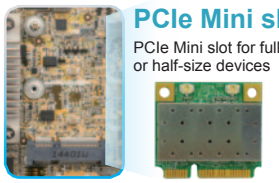
PCISA-BT

Half-size PCISA CPU card supports Intel® 22nm Atom™ on-board SoC with VGA, iDP, Dual Intel® PCIe GbE, USB 3.0, PCIe Mini, SATA, mSATA, COM, Audio and RoHS



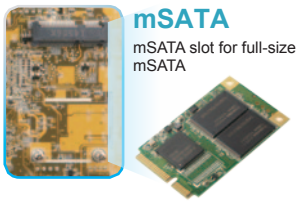
New





PCIe Mini slot

PCIe Mini slot for full-size or half-size devices



mSATA

mSATA slot for full-size mSATA

Specifications

- SoC
  Intel® Atom™ E3845 on-board SoC (1.91GHz, quad-core, 2MB cache, TDP=10W)
  Intel® Atom™ E3827 on-board SoC (1.75GHz, dual-core, 1MB cache, TDP=8W)
  Intel® Atom™ E3826 on-board SoC (1.46GHz, dual-core, 1MB cache, TDP=7W)
  Intel® Atom™ E3825 on-board SoC (1.33GHz, dual-core, 1MB cache, TDP=6W)
  Intel® Atom™ E3815 on-board SoC (1.46GHz, single-core, 512KB cache, TDP=5W)
- Memory
  One 204-pin 1066/1333MHz single-channel DDR3L SDRAM unbuffered DIMM (system max. 8GB)
- Graphics
  Intel® HD Graphics Gen 7 Engines with 4 execution units, supporting DX11.1, OpenGL 4.2 and OpenCL1.2
- Display Output
  Dual independent display
  VGA (up to 2560x1600@60Hz)
  18/24-bit dual-channel LVDS by CH7511B DP to LVDS converter (up to 1920x1200@60Hz) (optional, MOQ: 100 pcs/lot)
  iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 2560x1600@60Hz)
- Ethernet
  LAN1: Intel® I211-AT PCIe controller
  LAN2: Intel® I211-AT PCIe controller
- External I/O Interface
  1 x VGA
  1 x USB 2.0
  2 x RJ-45
  1 x USB 3.0
- Internal I/O Interface
  1 x IR
  1 x LPT (2x13 pin)
  1 x RS-422/485 (1x4 pin, P=2.0)
  2 x RS-232 (2x5 pin, P=2.54)
  1 x mSATA (SATA 3Gb/s, shares with SATA1)
  1 x KB/MS (1x6 pin)
  4 x USB 2.0 (2x4 pin, P=2.54)
  1 x USB 2.0 (180 degree type A)
  2 x SATA 3Gb/s
- Audio
  Support 7.1 channel HD audio by IEI AC-KIT-892HD kit
  1 x Analog audio (2x5 pin)
- TPM
  1 x TPM (2x10 pin)
- SMBus
  1 x SMBus (1x4 pin)
- I²C
  1 x I²C (1x4 pin)
- Expansion
  1 x microSD socket
  1 x PCIe Mini slot
  PCIe-PCI bridge: ITE8892E
  LPC-ISA bridge: F85226FG
  PCI and ISA signal via golden finger
- Watchdog Timer
  Software programmable supports 1~255 sec. system reset
- Digital I/O
  1 x 8-bit digital I/O (2x5 pin)
- Fan Connector
  1 x Smart fan connector (1x4 pin)
  1 x System fan connector (1x3 pin)
- Power Supply
  5V/12V, AT/ATX support
- Power Consumption
  5V@1.55A,12V@0.74A (Intel® Atom™ E3845 1.91GHz CPU with one 8GB 1333MHz memory)
- Operating Temperature
  -20°C ~ 60°C
- Storage Temperature
  -30°C ~ 70°C
- Dimensions
  185 mm x 128 mm
- Weight
  GW: 1000g/NW: 250g

Features

- Half-size PCISA CPU card supports Intel® 22nm Atom™ or Celeron® on-board SoC
- Supports dual LAN by Intel® I211-AT PCIe controllers
- Supports 1.35 V 1333/1066 MHz DDR3L SDRAM up to 8GB
- Supports dual independent display with one analog CRT, iDP and one 24-bit dual-channel LVDS (optional)
- COM, USB 3.0, SATA 3Gb/s, PCIe Mini, mSATA and HD Audio support
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Packing List

1 x PCISA-BT single board computer
1 x SATA cable
1 x Utility CD
1 x QIG (Quick Installation Guide)

Ordering Information

Part No.	Description
PCISA-BT-E38451-R10	Half-size PCISA CPU card supports Intel® Atom™ E3845 (10W) on-board SoC with VGA, iDP, Dual Intel® PCIe GbE, USB 3.0, PCIe Mini, SATA, mSATA, COM, Audio and RoHS
PCISA-BT-E38251-R10	Half-size PCISA CPU card supports Intel® Atom™ E3825 (6W) on-board SoC with VGA, iDP, Dual Intel® PCIe GbE, USB 3.0, PCIe Mini, SATA, mSATA, COM, Audio and RoHS
32205-003800-300-RS	RS-422/485 cable, 200mm, P=2.0
19800-000075-RS	PS/2 KB/MS Y-cable with bracket, 220mm
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
32200-015100-RS	LPT flat cable, 280mm
19800-000051-RS	Dual RS-232 cable, 230mm, P=2.54
AC-KIT-892HD-R10	Realtek ALC892 7.1 channel HD audio peripheral board
DP-DVI-R10	DisplayPort to DVI-D converter board (for IEI iDP connector)
DP-HDMI-R10	DisplayPort to HDMI converter board (for IEI iDP connector)
DP-LVDS-R10	DisplayPort to LVDS converter board (for IEI iDP connector)
DP-VGA-R10	DisplayPort to VGA converter board (for IEI iDP connector)
DP-DP-R10	DisplayPort to DisplayPort converter board (for IEI iDP connector)
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17

Note: Models with other CPUs not listed in the table are requested by MOQ - 100 pcs/lot.