

PB2200

Intel® Bay Trail™ based fanless box IPCs



The fanless box IPC family PB2200 is based on the Celeron J1900 2GHz quad core 64 bit processor of the Intel® Bay Trail™ System On Chip (SoC) platform. The "all in one" motherboard provides two Ethernet 10/100/1000Mbps ports, that support "Jumbo Frame" and "Wake on Lan" functionalities, one USB 3.0 port, two USB 2.0

ports, a serial RS232 interface, a DVI-I (DVI-D + VGA) video output and a SATA II CFast slot with external access, an mSATA connector for SATA II SSD, one SATA II connector for the installation of 2.5" HDD/SSD, up to 8 GB RAM with one DDR3 SODIMM module and two internal connectors for additional interfaces.

PB2200 systems have an isolated 24 VDC power supply input and optionally an integrated UPS with external battery pack. The systems are available in three versions, the SL with a reduced depth, the S0 with the possibility to install additional interfaces and the S1 with a PCI or PCIe x1 slot.

Highlights

- UBIQUITY remote assistance software providing remote access to the system
- Support to 32 or 64 bit operating systems
- "All in one" motherboard
- High performance Intel® Bay Trail™ SoC platform
- Fanless box IPC with 0°C÷50°C operating temperature
- Isolated 24 VDC power supply input
- Onboard connector for NETcore X fieldbus boards
- Integrated UPS with external battery pack (optional)
- SL version with reduced depth
- S1 version with one PCI or PCIe x1 expansion slot
- CE, cULus LISTED (508) certifications



Gallery



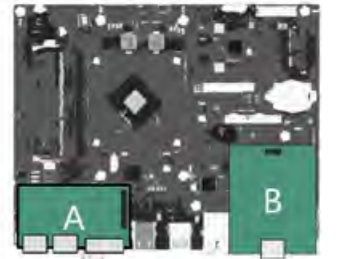
Add-On boards

Position A

- 1 x RS232/422/485 + 1 x USB 2.0
- 1 x RS232/422/485 isol. + 1 x USB 2.0
- 2 x RS232
- 2 x USB 2.0

Position B

- 1 x LAN Gigabit
- 1 x NETcore X fieldbus board
- Wireless/Bluetooth/Modem



Technical data

	PB2200
PROCESSOR	Intel® Celeron J1900 2.0GHz (2.42GHz Burst) 64 bit, 4 cores / 4 threads, 2MB L2 cache, soldered
VIDEO CONTROLLER	Intel® HD Graphics integrated in microprocessor, 688MHz Clock 854MHz Turbo, LVDS 8bit/colour digital interface
SYSTEM MEMORY - RAM	1GB or 2GB or 4GB or 8GB (1 x SODIMM DDR3 module)
MASS STORAGE	1 bootable CFast SATA II slot onboard with external access 1 x onboard connector for direct insertion of mSATA SSD SATA II
SL/S0/S1	1 x bootable CFast SATA II slot on board with external access 1 x onboard connector for 2,5" SSD/HDD 24x7 SATA II with internal installation kit
LAN	2 x LAN 10/100/1000Mbps (RJ45 - 2 x Intel® I210)
USB	1 x USB 3.0 rear (Type-A) 2 x USB 2.0 rear (Type-A)
SERIAL	1 x RS232 (DB9M)
VIDEO OUTPUT	1 x DVI-I (DVI-D + VGA with adapter)
ADD-ON INTERFACES (only for S0/S1)	1 x RS232/422/485 (DB15M) + 1 x USB 2.0 (Type-A) 1 x RS232/422/485 (DB15M) isolated + 1 x USB 2.0 (Type-A)
Position A (max 1)	2 x RS232 (DB9M) 2 x USB 2.0 (Type-A)
Position B (max 1)	1 x LAN 10/100/1000Mbps (RJ45 - Intel® I210) 1 x NETcore X fieldbus boards for EtherCAT, EtherNet IP, PROFINET, PROFIBUS, CANopen protocols 1 x Wireless/Bluetooth/Modem adapter
EXPANSION SLOTS S1	1 x PCI / PCIe x1
POWER SUPPLY INPUT	24VDC (18÷32VDC) isolated
POWER SUPPLY OPTIONS	UPS with external battery pack Kit for ATX mode power supply
O.S. CERTIFIED	Microsoft Windows 7 Pro/Ultimate 32/64 bit Microsoft Windows Embedded Standard 7E/7P 32/64 bit Microsoft Windows 8.1 Industry Pro 32/64 bit Microsoft Windows 10 IoT Enterprise 2016/2019 64 bit
OPERATING TEMPERATURE	0°C÷50°C 0°C÷45°C with 24x7 HDD
APPROVALS	CE, cULus LISTED (508)