

IXBYT35

Intel® Bay Trail Embedded Industrial PC



Features

- Intel Bay Trail BGA processor
- Dual channel DDR3L up to 4GB
- Display interfaces: VGA, HDMI
- 10/100/1000Mbit ethernet card
- SATA2.0, mSATA, eMMC (optional)
- 12V DC input (9~36V,optional)



Introduction

The IXBYT35 is a small form factor embedded system. Built with the Intel® Bay Trail platform, it supports Celeron J1900, Celeron J1800 and Celeron N2940. It offers onboard 2GB or 4GB system memory for higher bandwidth and lower latencies for processes. Powered by Intel® i211 controller, this system is equipped with Dual Intel Gigabit Ethernet. This computer features SATA2.0, mSATA and eMMC (optional), which makes it a good choice for data transportation application.

This system also features dual display including 1×VGA and 1×HDMI1.4. It has 2×LAN, 1×USB3.0, 5×USB 2.0, 4×RS232, 2×RS485, catering to most requirements in the market. This system is designed for various application as, but not limited to, automation, network security, communication and transportation.



H/W Monitor



Watchdog



GPIO

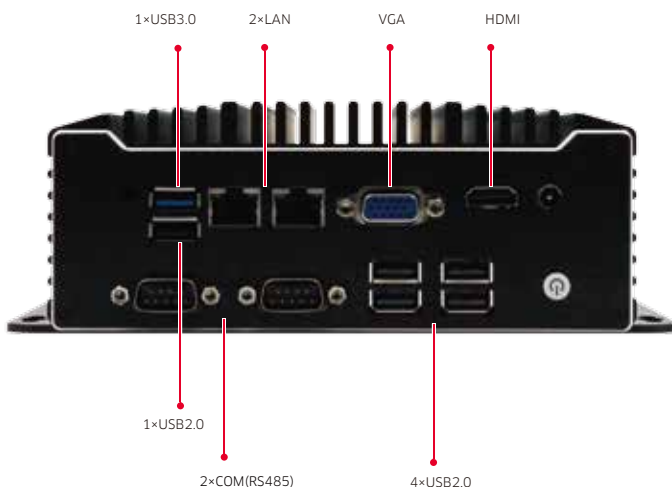


Brightness

CPU Options

| | |
|-------|--|
| J1900 | (2.00GHz, burst frequency 2.42 GHz, quad-core,TDP 10W) |
| J1800 | (2.41GHz, burst frequency 2.58 GHz, dual-core,TDP 10W) |
| N2940 | (1.83GHz, burst frequency 2.25GHz, quad-core,TDP 7.5W) |

I/O Interfaces



Front Panel



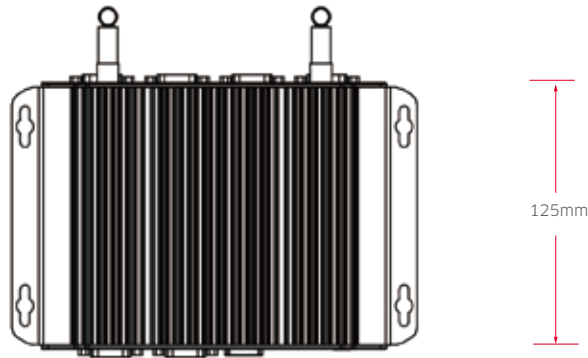
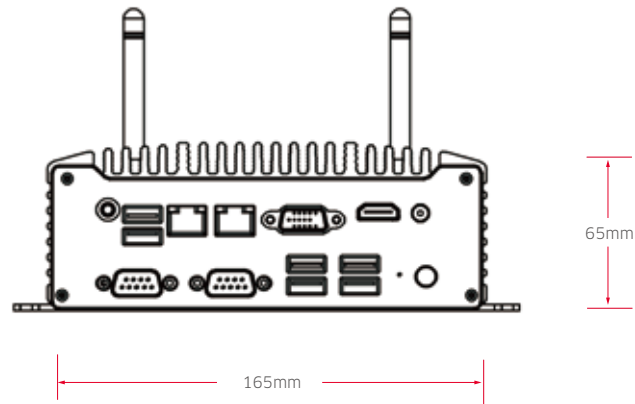
Rear Panel

Technical Specifications

| | | | | | |
|-----------------|--|---|----------|---------|--|
| Processor | CPU | J1900 | J1800 | N2940 | |
| | Core frequency | 2.0GHz | 2.41 GHz | 1.83GHz | |
| | Burst frequency | 2.42 GHz | 2.58 GHz | 2.25GHz | |
| | Cache | 2MBL2 | 1MBL2 | 2MBL2 | |
| | BIOS | AMI 8Mb UEFI BIOS | | | |
| Memory | Type | Onboard 4GB(2GB, option) | | | |
| | Capacity | Max. 4GB | | | |
| Display | GPU | Intel HD Graphics (varies to CPU) | | | |
| | HDMI | 1 | | | |
| | VGA | 1 | | | |
| | Dual display | HDMI+VGA | | | |
| Ethernet | Speed | 10/100/1000Mbps | | | |
| | Controller | 2x Intel i211 | | | |
| | Interface | 2x RJ45 | | | |
| | Wake on LAN | Yes | | | |
| Audio | Audio codec | Realtek HD ALC662 | | | |
| | Interface | Line-out and MIC-in in one | | | |
| Hardware | Onboard DC-IN voltage, watchdog, auto power on | | | | |
| Storage | mSATA | 1xmSATA for SSD | | | |
| | SATA2.0 | 1x SATA2.0 | | | |
| | EMMC | Optional | | | |
| Expansion | Mini-PCIe | 1xMini-PCIe for WIFI/4G | | | |
| | Micro Sim | 1 | | | |
| Front panel I/O | COM | 2xRS485 | | | |
| | Lan | 2 | | | |
| | USB3.0 | 1 | | | |
| | USB2.0 | 5 | | | |
| | VGA | 1 | | | |
| | HDMI | 1 | | | |
| | DC-IN | 1 | | | |
| Rear panel I/O | COM | 4xRS232 | | | |
| Power | Standard port | 12V DC-IN/4 PIN Power (9~36V, optional) | | | |
| Dimensions | Size | 165mm x 125mm x 65mm | | | |
| Environment | Operating Temp. | -40°C ~60°C | | | |
| | Storage Temp. | -40°C ~80°C | | | |
| OS | Win7/Win10 32 bit/64 bit, Linux | | | | |

* All specifications and photos are subject to change without notice.

Dimensions



Ordering Information

| Model | CPU | Memory | HDMI | VGA | LAN | Audio | RS232 | RS485 | USB3.0 | USB2.0 | SATA2.0 | mSATA | mini PCIe | Power | Cooling |
|----------|-------|--------|------|-----|-----|-------|-------|-------|--------|--------|---------|-------|-----------|-------|---------|
| IX1900-I | J1900 | 4GB | 1 | 1 | 2 | 1 | 4 | 2 | 1 | 5 | 1 | 1 | 1 | DC-IN | Passive |
| IX1800-I | J1800 | 4GB | 1 | 1 | 2 | 1 | 4 | 2 | 1 | 5 | 1 | 1 | 1 | DC-IN | Passive |
| IX2940-I | N2940 | 4GB | 1 | 1 | 2 | 1 | 4 | 2 | 1 | 5 | 1 | 1 | 1 | DC-IN | Passive |

Customization available