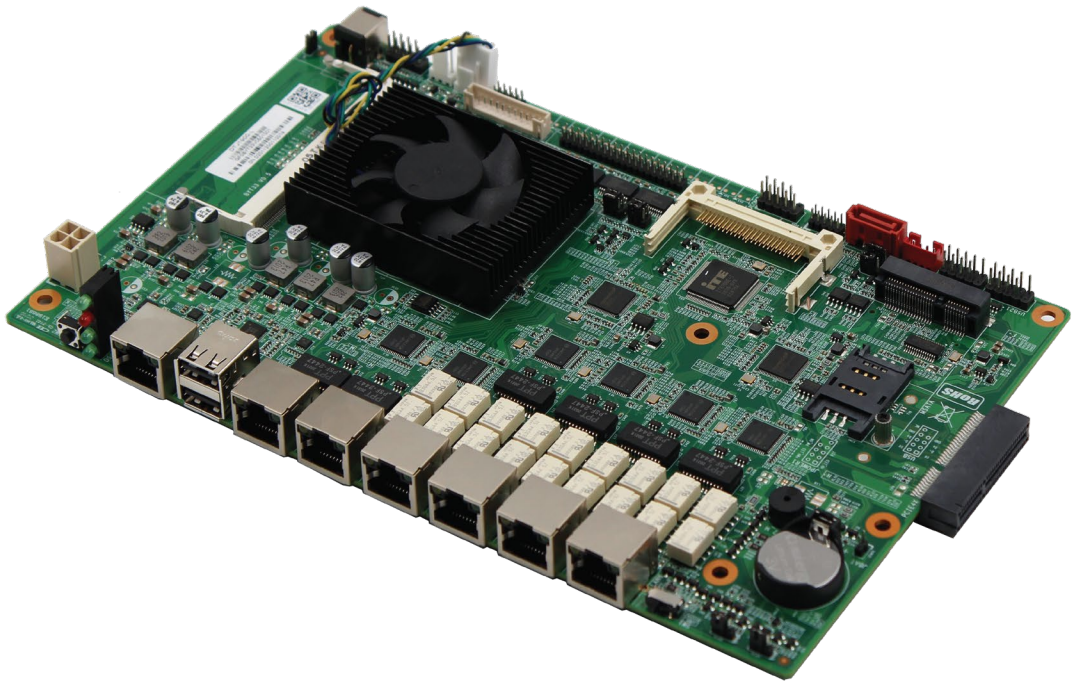
DATASHEET

BYT-33

Intel® Bay Trail Processor based Embedded Motherboard



Features

- CPU: Intel Bay Trail Celeron J1900 processor
- Memory: Single Channel DDR3L up to 8GB
- I/O Interface: 6xLAN, 2xUSB2.0, 4XUSB2.0(Header) 6xCOM/2xCOM, 8xGPIO
- Display: VGA(Header)
- Ethernet: 10/100/1000Mbps
- Storage: mSATA/SATA2.0, CF Card
- Expansion: 1xPCIe4x(PCIe2x Signal), 1xMini PCIe
- Power: 12V DC input

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Introduction

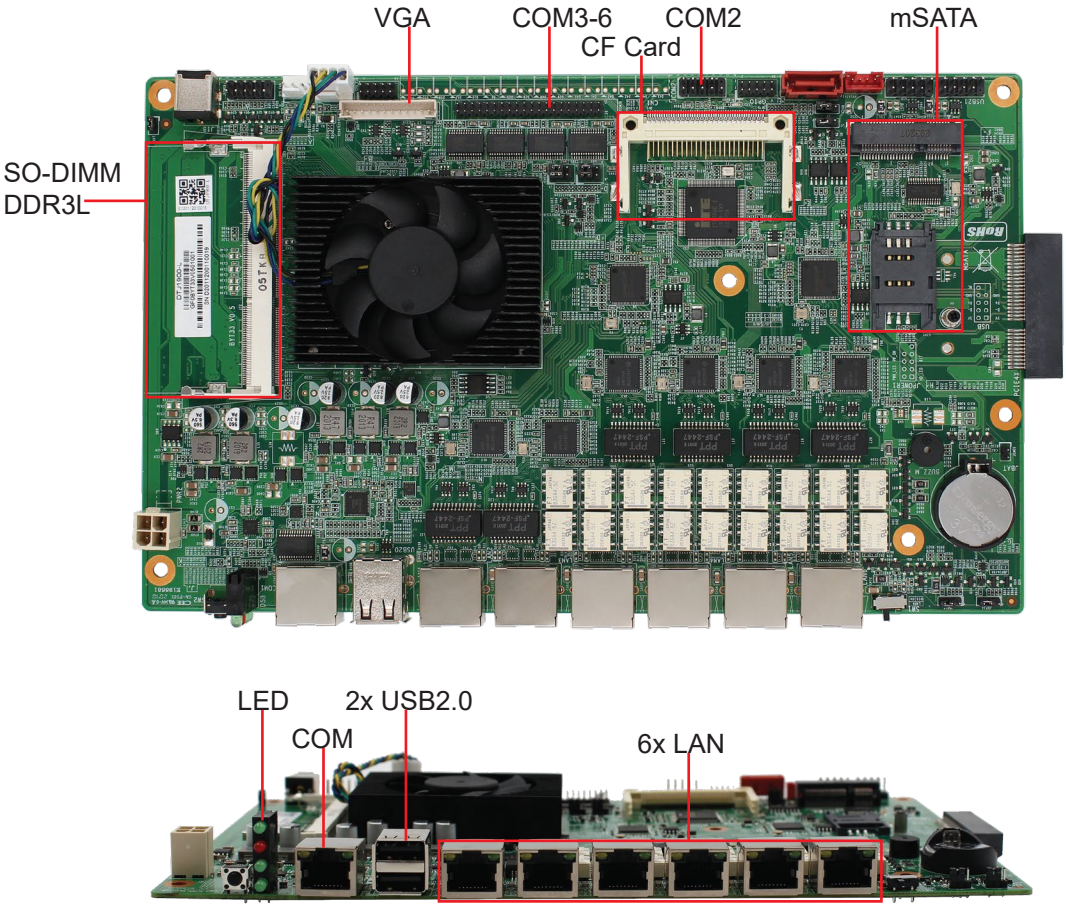
Powered by Intel® Celeron® processor J1900 (quad-core), Maxtang BYT-33 is power efficient (rated at a TDP of 10W) and adequate power-sensitive applications. It carries one DDR3L SO-DIMM slot with a total maximum capacity of 8GB to add higher bandwidth and lower latencies for processes. It has a 1×mSATA, 1x CF Card, and 1×SATA2.0(Optional) for storage requirements.

BYT-33 features 6xLAN,2xUSB2.0,4xUSB2.0(Header), 8xGPIO, and VGA for display, which meets most market requirements. The board delivers cutting-edge performance with low power consumption. It offers you stunning visuals, effortless multitasking, fast speed, enhanced security to increase your productivity with reliability. by adding Celeron® CPU. Another feature is its 6×COM interfaces, which makes it ideal for applications as a firewall device.

Linux
ubuntu
Linux
Windows

H/W Monitor
Watchdog
GPIO
Brightness

I/O Interfaces

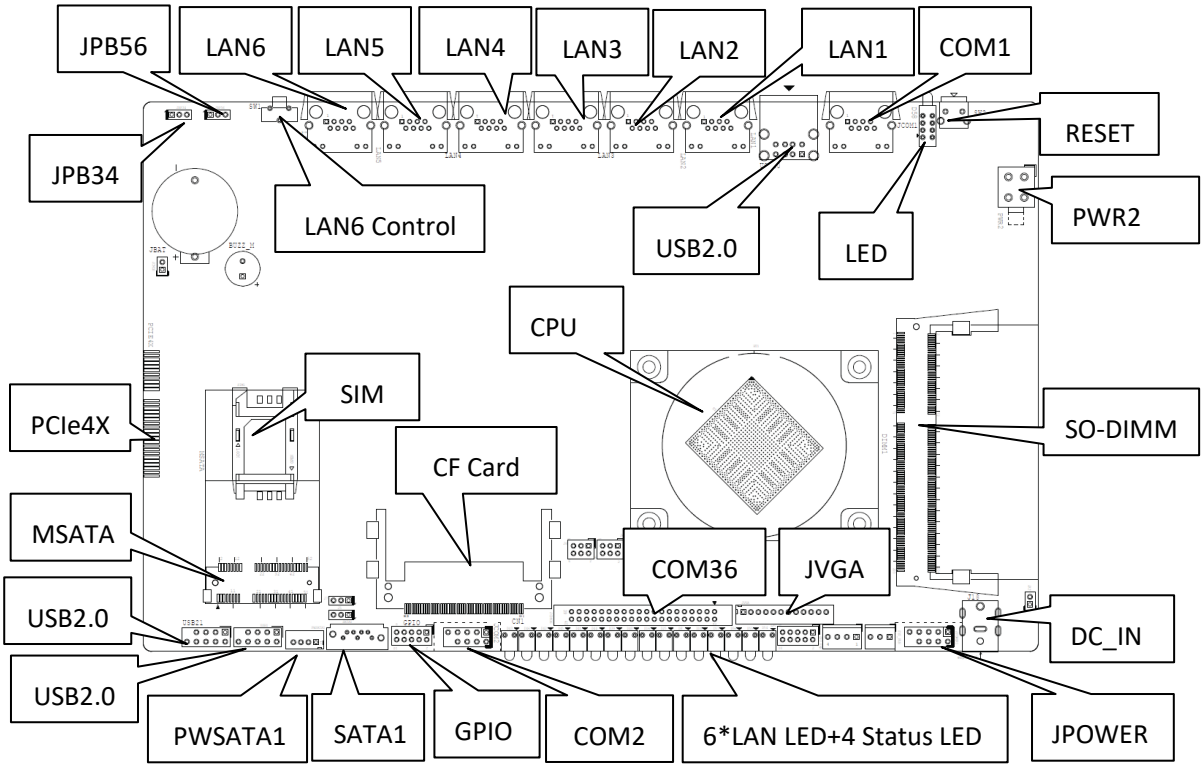


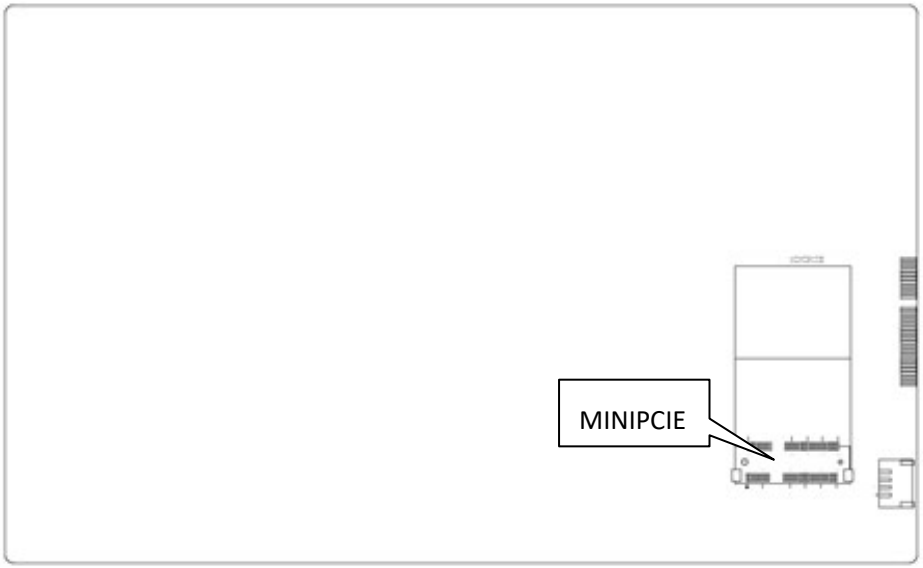
Technical Specifications

Processor	CPU	Celeron J1900 (Quad-Core)
	Burst Frequency	2.42 GHz
	Base Frequency	2.0 GHz
	Cache	2MB L2
	TDP	10 W
	BIOS	AMI UEFI BIOS
Memory	Type	1x SO-DIMM DDR3L
	Max Capacity	8GB
Display	GPU	Intel Integrated Graphics
	Display via	1x VGA *header
Ethernet	Speed	10/100/1000Mbps
	Controller	Intel i210/i211
Storage		CF Card, mSATA/SATA (Alternative)
Expansion	PCIe	1xPCIe4x(PCIe2x Signal), 1xMini PCIe for 4G and WiFi
I/O Interface	USB2.0	6 (2 *ports + 4 *header)
	LAN	6xLAN (Intel i210/i211)
		LAN3-4, LAN5-6 Bypass
	COM	6xCOM/2COM (RS232)
		COM1 RJ45, Console (COM3, COM4 RS485 Optional)
	GPIO	8 (one group)
Dimension	Size	238mm x 146mm
Power	Standard port	12V DC-in
Temperature	Operating Temp.	-20°C to 60°C
	Storage Temp.	-20°C to 60°C
Cooling method		Active (Fan)
Operating System		Windows 7, Windows 10 64bit, Linux 64bit

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

Diagram





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