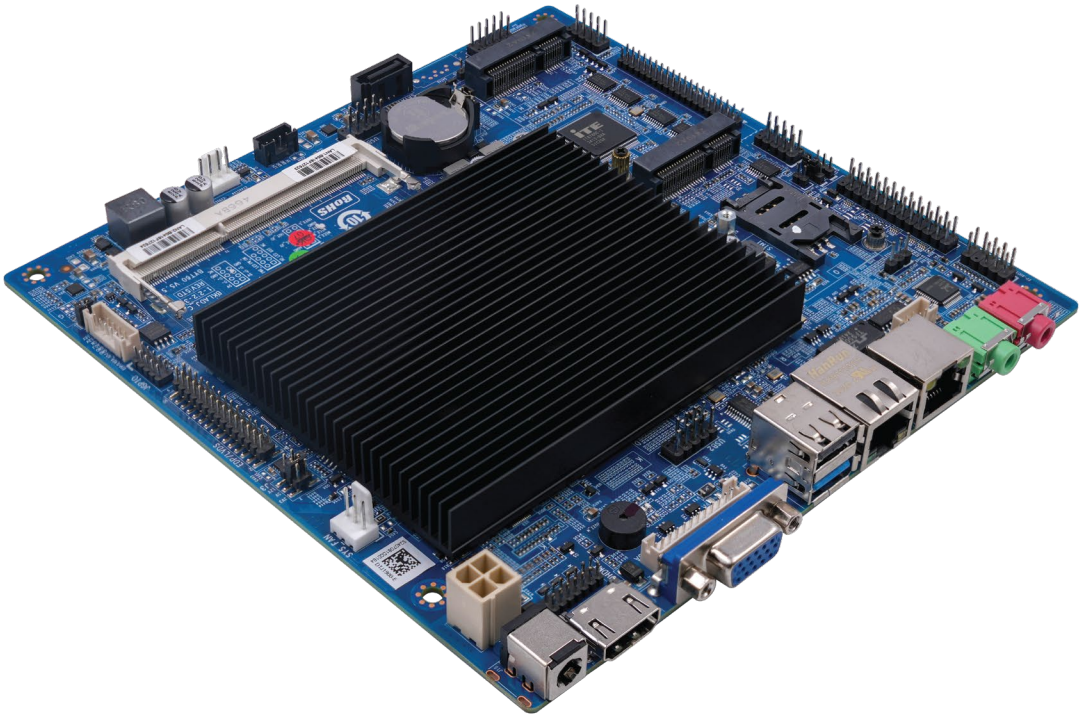
PRODUCT DATASHEET
HW Rev.: V5.5

BYT-60

Intel® Bay Trail Processor based Mini ITX Motherboard



Features

- CPU: Intel® Bay Trail Celeron and Atom Processors
- Memory: Single Channel SO-DIMM DDR3L up to 8GB
- Display: Intel HD Graphics via VGA, HDMI, LVDS/eDP
- Ethernet: 10/100/1000Mbps
- Storage: SATA2.0, mSATA
- Expansion: Mini PCIe, SIM Slot, eMMC optional
- Power: 12V DC input

intel prestige partner Builder

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Introduction

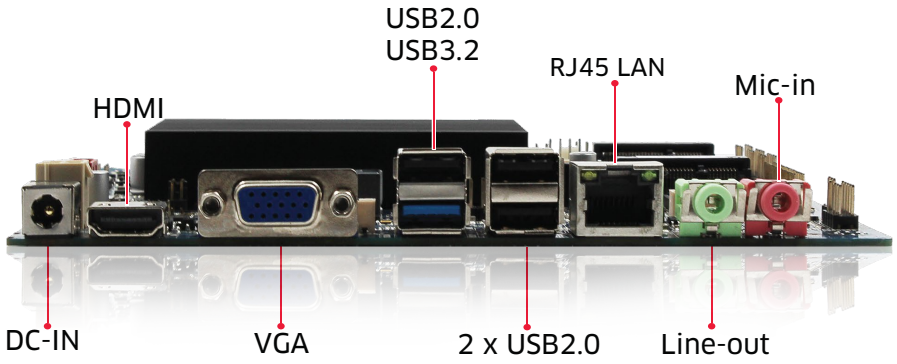
Powered by an Intel® Celeron® processor, the BYT60 Mini ITX motherboard is compatible with J1900, J1800, or N2940. It is rated at a TDP of 10W/ N2940 onboard at 7.5W and is adequate for power-sensitive applications with cost advantages. Supports single channel SO-DIMM DDR3L up to 8GB memory to add higher bandwidth and lower latencies for processing. Features with 1×SATA and 1×mSATA for storage, eMMC optional, and mini-PCIe for expansion.

The board supports 1080p HD display via VGA, HDMI, and eDP/LVDS. It has a maximum of 7×USB2.0, 1×USB3.2, a maximum of 2xLAN, 1×PS/2, 1×LPT, up to 6xCOM, 1×mic-in, and 1×audio-out, and meets most requirements in the market. It delivers cutting-edge performance with low power consumption sustainable for multitasking and has enhanced security to help create and increase productivity. It is ideal for various applications like transportation, communication, etc.

Linux
ubuntu
Windows
H/W Monitor
Watchdog
GPIO
Brightness
HDMI

I/O Interfaces

Option 1: 1xLAN



Option 2: 2xLAN

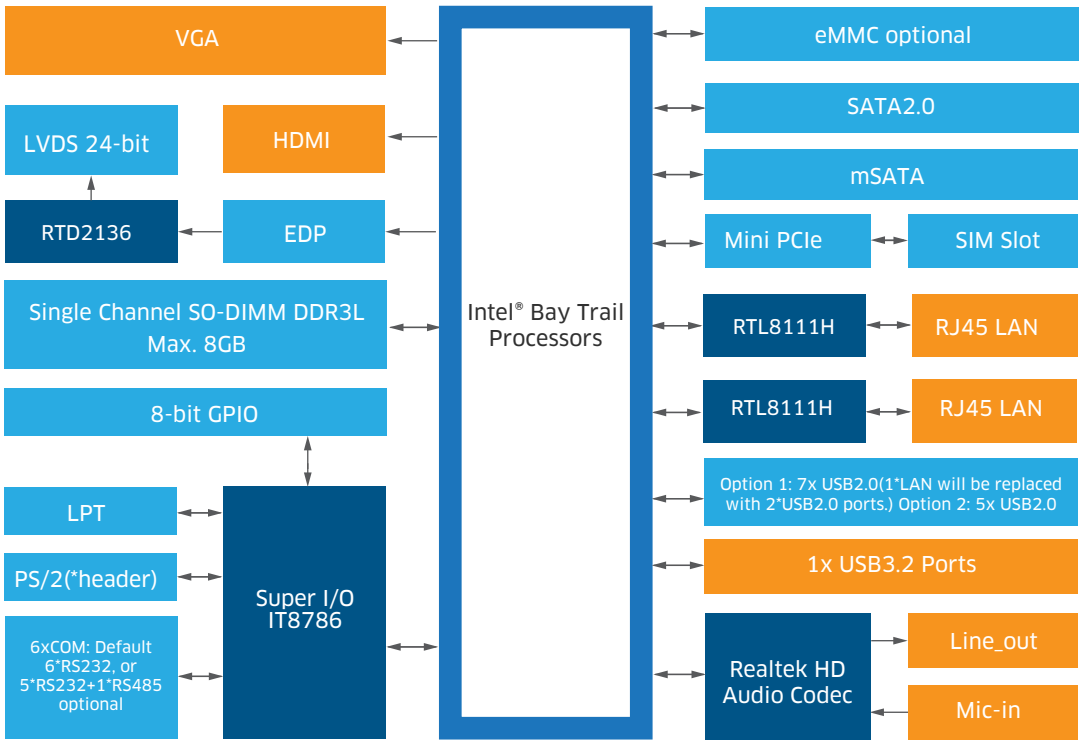


Technical Specifications

Processor	CPU	J1800	J1900	N2940
	Total Cores/Threads	2C/2T	4C/4T	4C/4T
	Burst Frequency	2.58GHz	2.42GHz	2.25 GHz
	Base Frequency	2.41GHz	2.00GHz	1.83 GHz
	L2 Cache	1MB	2MB	2MB
	TDP	10W	10W	7.5W
	BIOS	AMI UEFI BIOS		
Memory	Type	Single Channel SO-DIMM DDR3L		
	Max. Capacity	8GB		
Display	GPU	Intel® HD Graphics for Intel Atom® Processor Z3700 Series		
	Interface	1 x HDMI + 1 x VGA + 1 x eDP/LVDS		
Ethernet	Controller	Realtek® RTL8111H		
	Speed	10/100/1000Mbps		
	Interface	Option 1: 1 x RJ45 LAN		
		Option 2: 2 x RJ45 LAN		
Audio	Audio Codec	Realtek® High Definition Audio Codec		
	Interface	1xLine-out, 1xMic-in, support audio header and power amplifier.		
Hardware Monitoring		CPU/System temperature, onboard voltage, watchdog, auto power on		
Storage	SATA2.0	1 x SATA2.0		
	mSATA	1 x mSATA for SSD/4G Module		
	eMMC	Optional		
Expansion	Mini-PCIe	1 x Mini-PCIe		
	SIM	1 x SIM Slot		
I/O Interface	COM	6 x COM: default 6*RS232 or 5*RS232+1*RS485(COM6) optional		
	USB3.2	1 x USB3.2(port)		
	USB2.0	Option 1: 7 x USB2.0(4*header+3*Port)		
		Option 2: 5 x USB2.0(4*header+1*Port)		
	GPIO	8-bit		
	PS/2	1		
	LPT	1		
Dimension	Size	170mm x 170mm		
	Form Factor	Mini ITX		
Power	Standard Port	12V DC-in/4-pin power		
	Peripheral Input	For Fan and SATA		
Temperature	Operating Temp.	-20°C to 60°C		
	Storage Temp.	-40°C to 80°C		
Operating System		Win8/10 32/64bit, Linux 32/64bit		

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

Functional Block Diagram



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Order Information

Model Name	Description
DTJ1900-E	DT ITX Intel Celeron J1900 BYT60V53 2LAN 6*RS232 LVDS
DTJ1900-E-485	DT ITX Intel Celeron J1900 BYT60V53 2LAN 5*RS232 1*RS485
DTJ1900-EB	DT ITX Intel Celeron J1900 BYT60V53 1LAN 2*RS232 LVDS
DTJ1900-EA	DT ITX Intel Celeron J1900 BYT60V53 1LAN 6*RS232 LVDS

***For customized options, please contact regional sales. Model names and descriptions are subject to change; please confirm before purchase.

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