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, eMMC optional
- Power: 12V DC input

(intel) IoT Solutions Alliance
Industrial Solution Builders Specialist

Maxtang®
MAXIMIZING YOUR COMPUTING PRODUCTIVITY

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.
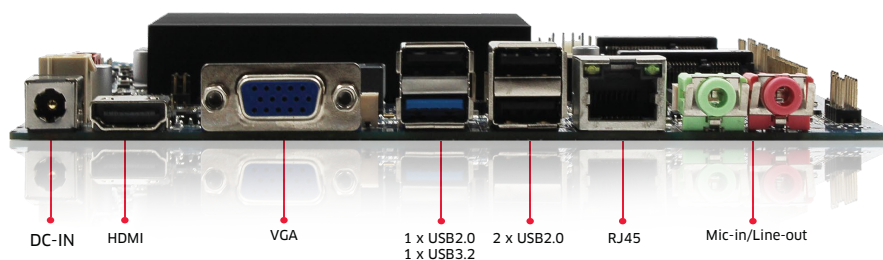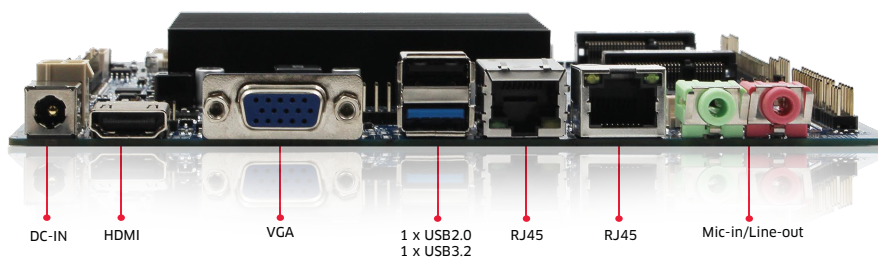
Linux™

ubuntu
Linux

Windows

H/W Monitor   Watchdog

GPIO   Brightness

I/O Interfaces

Option 1: 1xLAN

DC-IN   HDMI   VGA   1 x USB2.0
1 x USB3.2   2 x USB2.0   RJ45   Mic-in/Line-out

Option 2: 2xLAN

DC-IN   HDMI   VGA   1 x USB2.0
1 x USB3.2   RJ45   RJ45   Mic-in/Line-out

Technical Specifications

Processor	CPU	J1800(2-core)	J1900(4-core)	N2940(4-core)
	Base Frequency	2.41GHz	2.00GHz	1.83 GHz
	Burst Frequency	2.58GHz	2.42GHz	2.25 GHz
	Cache	1MB	2 MB L2	2 MB L2
	TDP	10W	10W	7.5W
	BIOS	AMI UEFI BIOS		
Memory	Type	Single Channel SO-DIMM DDR3L		
	Max. Capacity	8GB		
Display	GPU	Intel HD Graphics		
	Display via	1xHDMI + 1xVGA + 1x eDP/LVDS		
Ethernet	Speed	10/100/1000Mbps		
	Controller	Realtek RTL8111H		
	Interface	2xRJ45 (Optional 1xLAN with 2x USB2.0 interfaces)		
Audio	Audio Codec	Realtek HD		
	Interface	Line-out, Mic-in, 1x SPDIF		
Hardware		Watchdog, Auto power on		
Storage	SATA2.0	1		
	mSATA	1		
	eMMC	Optional		
Expansion	Mini-PCIe	1		
I/O Interface	LAN	2 (Optional 1xLAN with 2x USB2.0 interfaces)		
	COM	6xCOM: 6*RS232(default) or 5*RS232+1*RS485(COM6)		
	USB3.2	1		
	USB2.0	5 (4*header+1*Port)		
	Audio	1x Line-out, 1x Mic-in		
	GPIO	8		
	PS/2	1		
	LPT	1		
Dimension	Size	170mm x 170mm		
	Board Type	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		

Functional Block Diagram
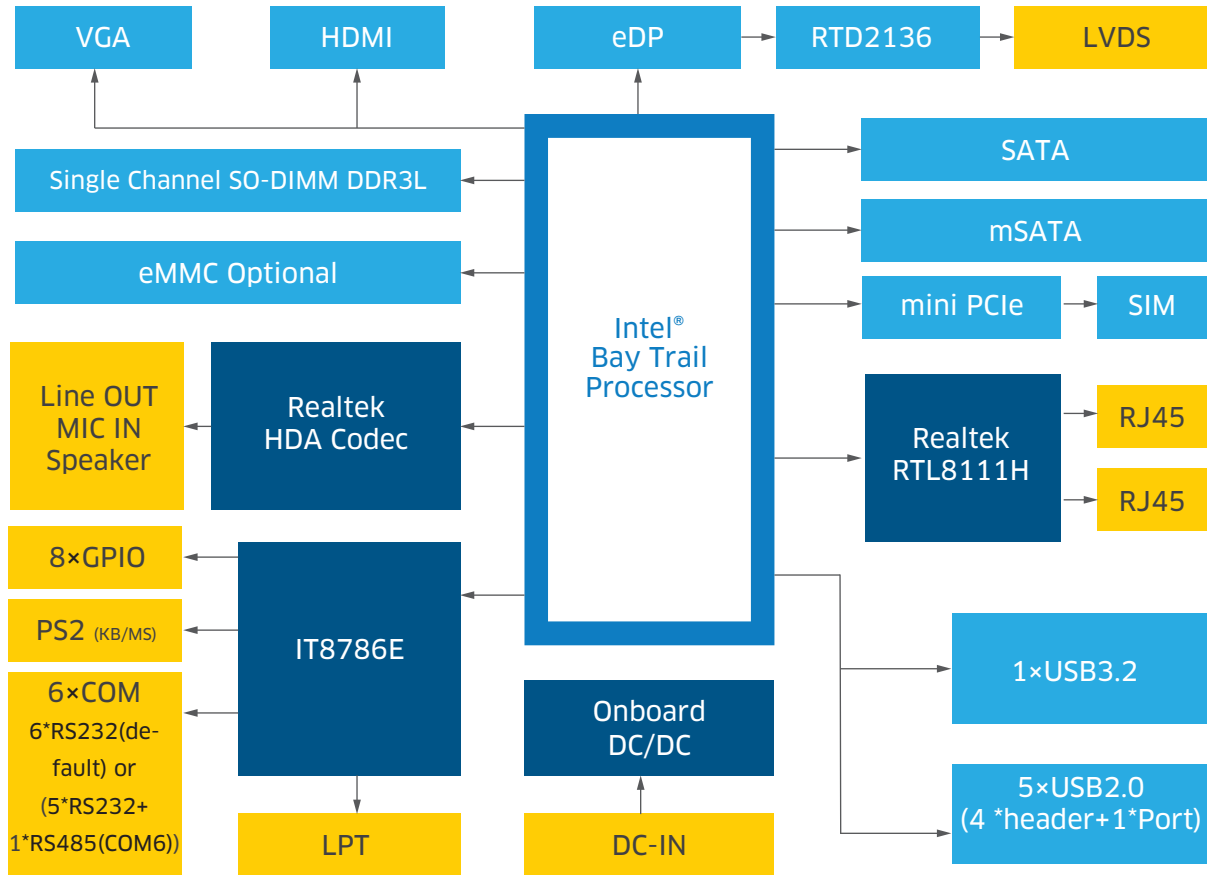
Order Information

Model Name	Description
DTJ1900-E	DT ITX Intel Celeron J1900 BYT60 2LAN 6*RS232 LVDS
DTJ1900-E-485	DT ITX Intel Celeron J1900 BYT60 2LAN 5*RS232 1*RS485 LVDS
DTJ1900-EB	DT ITX Intel Celeron J1900 BYT60 1LAN 2*RS232 LVDS
DTJ1900-EA	DT ITX Intel Celeron J1900 BYT60 1LAN 6*RS232 LVDS

*For customized options, please consult regional sales. And please confirm the model name and description before purchasing. *The model name and description might vary due to inventory changes.

Maxtang®
MAXIMIZING YOUR COMPUTING PRODUCTIVITY

SHENZHEN MAXTANG COMPUTER CO. LTD.
6/F, Bldg 3, Honghui Indl Park, Liuxian 2nd Road, Bao'an Dist, Shenzhen, China 518101
Tel.: +86 755 86143003 I Fax: +86 755 86143003 I sales@datangpc.com

www.maxtangpc.com