# mITX-BYT60

# Mini-ITX Intel<sup>®</sup> Bay Trail-D Embedded Motherboard



#### **Features**

- Intel Bay Trail-D Celeron processor, fanless design
- Single channel DDR3L up to 8GB
- Intel HD Graphics, display interfaces: VGA, HDMI, LVDS(eDP, optional)
- 10/100/1000Mbit ethernet card
- SATA2.0, mSATA, Mini-PCIe, eMMC (optional)
- 12V DC input





#### Introduction

Powered by Intel® Quad-core Celeron® processor J1900 or dual-core Celeron® processor J1800, this embedded board is power efficient (rated at a TDP of 10 watts) 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 1×SATA and 1× mSATA(2×SATA and mSATA can be set as mini-PCle) for storage requirement.

This embedded board features 1080p HD display display via VGA interface. It has 7×USB2.0 (max.), 1×USB3.0, 2×LAN(max.), 1×PS/2, 1×LPT, 6×COM(max.), 1×Mic-in and 1×Audio-out, which meets most requirements in the market.

This board can deliver cutting-edge performance with very low power consumption. With Celeron® processor you will enjoy stunning visuals, effortless multitasking, increased speed and enhanced security to help you create, play, entertain and achieve. Another special feature of this board is its 6×COM interfaces, which makes it an ideal for applications like transportation, communication and so on.









H/W Monitor Wate





GPIO

Brightness

#### 1 LAN option



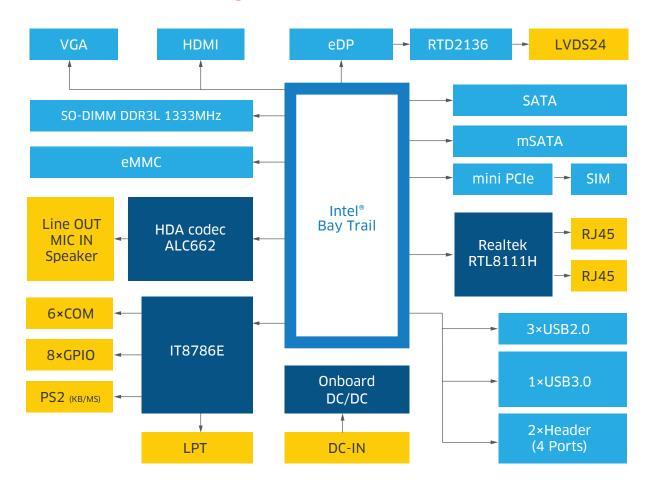
# 2 LAN option



# Technical Specifications

Processor	CPU	J1800	J1900				
	Core frequency	2.41 GHz, dual-core	2.00 GHz, quad-core				
	Turbo frequency	2.58 GHz	2.42 GHz				
	Cache	1MB	512 KB L2				
	BIOS	AMI 8MB UEFI BIOS					
Memory	Type	Single channel 1×DDR3L 1333MHz					
	Max.	8GB					
Display	GPU	Intel HD Graphics					
	VGA	Yes					
	LVDS	Dual channel 24bit L\	/DS(2-Lane eDP, optional)				
	HDMI	HDMI 1.4	HDMI 1.4				
	Dual display	VGA+HDMI+LVDS(eDP)					
Ethernet	Speed	10/100/1000Mbps					
	Controller	Realtek RTL8111H					
	Interface	2×RJ45 (One is optional with USB2.0 interfaces)					
	Wake on LAN	Yes					
Audio	Audio codec	Realtek HD ALC662					
	Interface	Line-out, MIC-in, 1xSPDIF					
Hardware		watchdog, Auto power on					
Storage	SATA2.0	2×SATA2.0, and SATA2 is optional with mSATA					
	mSATA	1×mSATA					
	еммс	1×eMMC (optional)					
Expansion	Mini-PCIe	2×Mini-PCle ( one is c	optional with mSATA)				
		The other one suppor	ts WIFI, 3/4G ethernet with SIM slot				
Rear Panel I/O	Audio	1×Line-out, 1x Mic-in					
	LAN	2 Max.(10/100/1000Mbps)					
	USB2.0	3 Max.					
	USB3.0	1					
	VGA	1					
	HDMI 1.4	1					
I/O header	USB2.0	4×USB2.0					
	COM	6, default: 6×RS232, and COM6 can be set as Rs485 by Maxtang only					
	PS/2	1×PS/2					
	1/0	8×GPIO					
	Others	1×LPT					
Power	Standard port	1×12V DC_IN/4PIN POWER					
	Peripheral	For fan and SATA					
Mechanical	Type	Mini-ITX					
& Environmental	Size	170mm×170mm					
	Operating Temp.	-40° C ~60° C					
	Storage Temp.	-40° C ~85° C					
Operating System		Win7/8/8.1/10 32/64	bit, Linux 32/64 bit				

## BYT60 Functional Block Diagram



## Ordering Information

Model	CPU	Memory	HDMI	LVDS eDP,optional	VGA	LAN	Audio	сом	USB3.0	USB2.0	SATA2.0	Mini-PCIe	mSATA	LPT	Power	Cooling
DTJ1900-E5	J1900 10W	SO-DIMM DDR3L	1	24-bit	1	2	Yes	6	1	5	1	1	1	1	DC-IN, 12V	Passive
DTJ1900-E5A	J1900 10W	SO-DIMM DDR3L	1	24-bit	1	1	Yes	6	1	7	1	1	1	1	DC-IN, 12V	Passive
DTJ1900-E5B	J1900 10W	SO-DIMM DDR3L	1	24-bit	1	1	Yes	2	1	7	1	1	1	1	DC-IN, 12V	Passive
DTJ1900-E5C	J1900 10W	SO-DIMM DDR3L	1	24-bit	1	1	Yes	1	1	7	1	1	1		DC-IN, 12V	Passive

