

# BYT-35

## Intel® Bay Trail based 3.5" Disk Size Motherboard



### Features

- CPU: Intel Bay Trail BGA processor
- Memory: Onboard dual-channel DDR3L up to 4GB
- Display: Intel Graphics display via VGA, HDMI, eDP/LVDS
- Ethernet: 10/100/1000Mbps
- Storage: SATA2.0, mSATA, eMMC optional
- Expansion: mini PCIe for WiFi, Mirco SIM
- Power: 12V/19V DC input, or 12V-36V Optional

The Maxtang SBC-BYT35 is an embedded motherboard based on the Intel Bay Trail processor, provides powerful performance with low power consumption. Supports on-board dual-channel DDR3L up to 4GB, display via HD Graphics through HDMI, VGA, and eDP/LVDS. Features two 10/100/1000 Mbps Ethernet controllers, mSATA, SATA2.0 for storage. Micro-SIM for expansion, mini-PCIe for WiFi, and eMMC optional. A rich input/output inter-

## Technical Specifications

Processor	CPU	J1800	J1900	N2940	
	Base Frequency	2.41 GHz	2.00 GHz	1.83 GHz	
	Burst Frequency	2.58 GHz	2.42 GHz	2.25 GHz	
	Cache	1MB L2	2MB L2	2MB L2	
	BIOS	AMI UEFI BIOS			
Memory	Type	Onboard DDR3L, supports dual-channel			
	Max. Capacity	4 GB			
Display	GPU	Intel Integrated Graphics based on CPU			
	Type	1xHDMI + 1xVGA + 1xeDP/LVDS			
Ethernet	Speed	10/100/1000 Mbps			
	Controller	Intel i211			
	Interface	RJ45			
Audio	Audio codec	Realtek HD			
	Interface	Line-out+mic-in (2-in-1), audio header, amplifier header			
Hardware	CPU system temperature, on-board voltage, watchdog				
Storage	mSATA	1x mSATA for SSD			
	SATA2.0	1			
	eMMC	Optional			
Expansion	Mini PCIe	1x mini PCIe for Wi-Fi/3G/4G/Bluetooth			
	Micro SIM	1			
I/O Interface	LAN	2			
	COM	6xCOM: 4*RS232+2*RS485			
	USB2.0	5 (1*Port+4*Header)			
	USB3.2	1			
	GPIO	8			
	Audio	1 (Mic-in+Line-out)			
	LPC	Optional			
	Dimension	Size	146 mm x 102 mm		
		Board type	3.5" Disk Size SBC		
Power	Standard Port	12V/19V DC-in / 4-Pin Power, or 12V~36V optional			
	Peripheral Input	For SATA power			
	LED Indicator	Power Indicator			
Temperature	Operating Temp.	-20°C to 60°C			
	Storage Temp.	-40°C to 80°C			
Operating System	Win 7, Win 10 32/64bit, Linux				

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

# Functional Block Diagram

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