



System	MBOX-800
Microarchitecture	Intel® Bay Trail
Processor	Intel® Atom™ E3815 (MBOX-100/100T) Intel® Atom™ E3825 (MBOX-110/110T) Intel® Celeron® N2930 (UbiQ-120)
Core Number	1 (MBOX-100/T) 2 (MBOX-110/T) 4 (MBOX-120)
Cache	512K (MBOX-100/T) 1M (MBOX-110/T) 2M (MBOX-120)
Frequency	1.46 GHz (MBOX-100/T) 1.33 GHz (MBOX-110/T) up to 2.16 GHz (UbiQ-120)
Socket	FCBGA1170
TDP	5W (MBOX-100/T) 6W (MBOX-110/T) 7.5W (UbiQ-120)
Graphics	Intel® HD Graphics
Memory	2GB DDR3L 1067 Memory (MBOX-100/100T) 4GB DDR3L 1067 Memory (MBOX-110/110T) 4GB DDR3L 1333 Memory (MBOX-120)
Display Interface	
HDMI	1 (on rear, 1920 x 1080 @ 60Hz)
Audio	
Audio Codec	Realtek ALC662
Line-Out	1 (on front)
Ethernet	
10/100/1000 LAN	2 (on rear, 1x Intel® I210-T, 1x Intel® I211-AT)
USB	
USB3.0	1 (Type A on front)
USB2.0	2 (Type A on rear)
Serial Port	
RS-232/422/485	2 (DB9 on rear)
Storage & Expansion	
eMMC	16GB (MBOX-100/100T) 32GB (MBOX-110/110T/120)
Micro SD Socket	1 (on front)
mPCIe	2 (full size)
Power	

Connector	Lockable DC Jack (on rear)
Input Voltage	DC 12V
Power Adapter	AC to DC, 100V ~ 240V
Firmware	
BIOS	AMI uEFI BIOS w/ 64Mb SPI Flash
Watchdog	Programmable WDT to generate system reset event
H/W Monitor	Temperatures, Voltages
Real Time Clock	SoC integrated RTC
System Control & Monitoring	
Button, Switch & Indicator	1x Power Button w/ LED (on front), 1x Reset Button (on front), 1x Storage LED (on front), 1x Wireless LED (on front), 3x User-defined LED (on front)
Software	
OS Support	Linux Ubuntu 14.04, Windows 8
Mechanical Characteristics	
Construction	Aluminum Chassis
Dimensions (W x D x H)	170 x 89.5 x 39.8 mm / 6.69" x 3.52" x 1.57"
Weight	500 g / 1.10 lb
Environmental Characteristic	
Operation Temperature	-20°C ~ 70°C / -
Storage Temperature	-20°C ~ 80°C / -4°F ~ 176°F (Extended), -
Humidity	0% ~ 90%
Certifications	
EMC & Safety	CE, FCC Class A

Description

High Performance and Low Power Consumption

MBOX-800 is a fanless computer boasting high computing and graphics performance, based on Intel®'s latest Braswell SoC Processor, Celeron® N3160, as well as Intel® HD Graphics 400 integrated. In addition, it supports 2x HDMI, 1x DP, 1x LAN, 4x USB 3.0, 1x COM, 1x Audio Jack, 1x mPCIe socket for network / peripheral applications and expansions.

Fanless, Ventless and Noiseless

Enclosed in a high reliable rugged case integrated with passive cooling design, MBOX-800 not only has great resistance to EMI, cold, heat or other harsh conditions, but also offers noise-free operation for a pleasant environment. In addition, the palm-sized volume facilitates integration into



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