



Embedded Motherboard



DT-H110DL

KABY LAKE MINI-ITX MOTHERBOARD



Intel® Kaby Lake/Sky Lake
6th/7th Gen. Processors



2 x DP (4096 x 2304 @60 Hz)
1 x VGA (1920 x 1080 @60 Hz)



Support Wi-Fi/BT module
Support 3G/4G



Mini-ITX form-factor
170 mm x 170 mm (6.69" x 6.69")

CPU

CPU	Intel® LGA1151 Socket 6 th /7 th Gen. processors
Frequency	by CPU
Chipset	H110
Processing Units	by CPU
TDP	≤ 65 W

System

GPU	Intel® HD Graphics (by CPU)
Graphic Engine	DirectX 11, OpenGL 4.3, OpenCL 1.2
System Memory	Up to 32 GB, 2 x U-DIMM DDR4-2133 MHz
Storage	1 x Full-size Mini-PCIe for MSATA 3 x SATAIII
TPM	Optional: TPM2.0
Watchdog Timer	Yes
Auto Power On	Yes
RTC	Set up independently every day, a week as a cycle
Remo on	NA
Power Requirement	ATX, 24 + 4pin
Dimensions	170 mm x 170 mm (6.69" x 6.69")
Operating system	Windows 7 (64bit) /Windows 8.1 (64bit) / Windows 10 (64bit) /Linux Ubuntu (64bit)
Operating Temperature	0°C ~60°C (32°F~140°F) @0.7m/s Air Flow
Humidity	95% @ 60°C (non-condensing)

Network

Network Controller	2 x Realtek RTL 8111H Gigabit Ethernet
Wi-Fi/BT	1 x Full-size Mini-PCIe for Wi-Fi/BT
Mobile Network	3G/4G colay with 1 x Mini-PCIe for Wi-Fi/BT 1 x SIM Slot

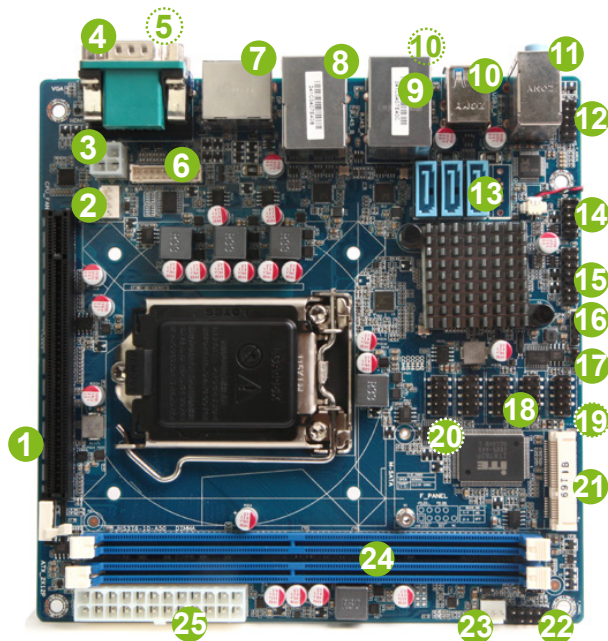
Rear I/O

USB	4 x USB3.2 Gen1, 2 x USB2.0
Serial port	1 x RS232
Display Interface	2 x DP (Max.4096 x 2304 @60 Hz) 1 x VGA (Max.1920 x 1080 @60 Hz)
Audio	1 x MIC-IN, 1 x LINE-IN, 1 x LINE-OUT
Ethernet Interface	2 x RJ45

Internal I/O

USB	4 x USB2.0, signal by 2 x 9pin USB header
Display	1 x 20pin HDMI header (Max. 4096 x 2304 @24 Hz)
Serial port	5 x RS232, signal by 5 x COM header
PCIe	1 x PCIe X16
Power	1 x 4pin ATX PWR_IN, 1 x 24pin ATX PWR_IN
Audio	1 x 10pin F_AUDIO, 1 x 2pin SPK
Others	1 x 10pin F_PANEL 1 x 2pin CLR_CMOS 1 x 4pin SYS_FAN, 1 x 4pin CPU_FAN

Dimensions and Drawing



No.	Dimensions	No.	Dimensions
1	PCIE X16	20	MINI-PCIE
2	CPU_FAN	21	MINI-PCIE
3	ATX_PWR	22	F_PANEL
4	COM	23	SYS_FAN
5	VGA	24	2*U-DIMM
6	HDMI header	25	ATX PWR
7	2*DP		
8	RJ45, 2*USB2.0		
9	RJ45		
10	4*USB3.2 Gen1		
11	3*AUDIO SLOT		
12	F_AUDIO		
13	3*SATAIII		
14	USB2.0		
15	USB2.0		
16	SPK		
17	CLR_COMS		
18	5*COM		
19	SIM CARD		

Order information

DT-H110DL-V	Intel® LGA1151 Socket 6 th /7 th Gen. processors
	Chipset: H110

Optional items

NA	NA
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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660