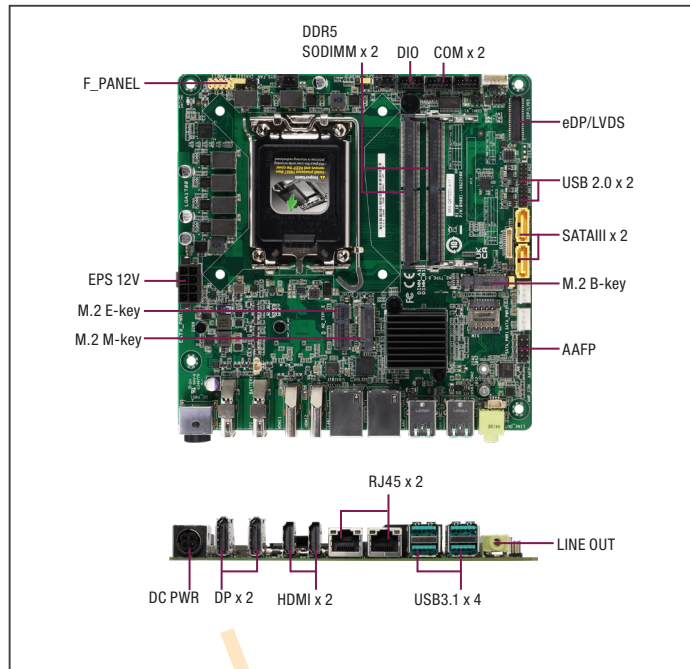




MIX-Q670D1

Mini-ITX with 12th/13th/14th Generation Intel® Core™ LGA1700 Socket Processor, Max. 65W TDPs



Features

- 12th/13th/14th Gen Intel® Core™ LGA1700 Processors
- DDR5 4800MHz SODIMM x 2, Max. 64GB
- HDMI 2.0 x 2 + DP 1.2 x 2
- M.2 2280 M-Key x 1 (PCIe [x4], NVMe), M.2 2230 E-Key x 1, M.2 3042/52 B-Key x 1 w/ SIM slot
- USB 3.2 x 4, USB 2.0 x 4
- GbE LAN x 2
- SATA III x 2
- DC 12V Input



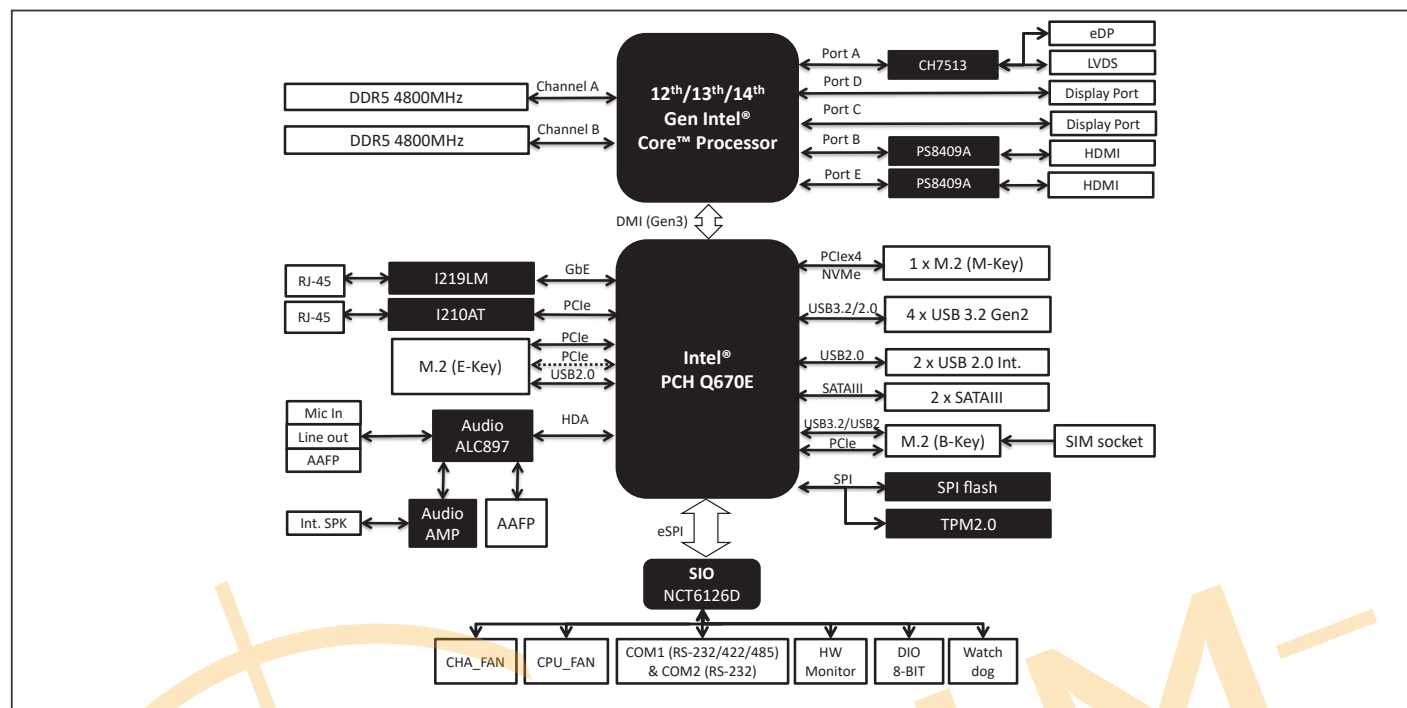
MTBF (Hours)	368,780
Rear Panel I/O Ports	
USB	USB 3.2 Gen 2 x 4
Display I/O	HDMI x 2, DP x 2
Audio I/O	Line-out x 1
LAN I/O	RJ-45 LAN Port x 2
Serial Port	—
PS/2 Port	—
Others	—
Internal I/O Connectors	
Storage	SATA III x 2 with SATA Power Connector x 2 (1A) M.2 2280 M-Key (PCIe [x4]/NVMe) x 1
USB	USB 2.0 x 4 via 2x5P Header x 2
Display I/O	40-pin LVDs/eDP connector x 1 with Inverter
Audio I/O	HD Audio x 1 (via AAFF Header), Internal Speaker x 1 (2W/40hmΩ)
Serial Port	COM Box Header x 1 (RS-232/422/485) COM Box Header x 1 (RS-232)
PS/2 Port	—
Parallel Port	—
DIO	Digital I/O box header x 1
FAN	4-pin CPU Fan connector x 1, 4-pin System Fan connector x 1
Power	—
Others	Front Panel connector x 1, Chassis Intrusion x 1, Buzzer onboard x 1, CMOS jumper x 1
OS	
OS Support	Windows® 10 64-bit, Windows® 11 64bit

Specifications

System	
Processor	12th/13th/14th Gen Intel® Core™ Processors (Raptor Lake-S/Alder Lake-S)
Chipset	Intel® Q670E
Memory	Dual-Channel DDR5 4800MHz SODIMM x 2 (Non-ECC, Max. 64GB)
I/O Chipset	NCT6126D
Ethernet	Intel® I219-LM GbE LAN x 1 Intel® I210-AT GbE LAN x 1
Audio	Realtek® ALC897 with Amp.
TPM	Onboard TPM 2.0 IC
Expansion Slots	M.2 3042/3052 B-Key x 1 (PCIe [x1], USB 3.2 Gen 1/USB 2.0) M.2 2230 E-Key x 1 (PCIe [x1], Optional: dual PCIe [x1], USB 2.0)
BIOS	256Mbit Flash ROM, AMI BIOS
H/W Monitor	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V, Fan Monitor on CPU/Chassis
WatchDog Timer	1~255 steps by software program
Smart Fan Control	CPU Fan/ System Fan
Wake On LAN/ PXE	Yes (WOL / PXE)
Power State	S3, S4, S5
Graphics	
Graphics Chipset	Intel® UHD Graphics
Graphics Multi Display	HDMI x 2 + DP x 2, HDMI x 2 + DP x 1 + LVDS x 1, HDMI x 2 + DP x 1 + eDP x 1, HDMI x 1 + DP x 2 + LVDS x 1, HDMI x 1 + DP x 2 + eDP x 1
VGA	—
DVI	—
HDMI	HDMI 2.0, Up to 3840 x 2160 @60Hz
Display Port	DP 1.2, Up to 3840 x 2160@60Hz
LVDS	Dual-Channel 18/24 bit LVDS via CH7513, up to 1920 x 1080 @60Hz, colay eDP
eDP	Up to 1920 x 1080 @60Hz
Backlight Control	PWM
Environment & Power & ME	
Battery	Lithium battery
Power Requirement	DC 12V Power consumption: Peak 330W; Typical 150W
Operating Temperature	32°F ~ 140°F (0 ~ 60°C) (Operational humidity: 60°C @ 90% RH Non-Condensing)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Certificate	CE & FCC
Form Factor	Mini-ITX: 6.7" x 6.7" (170mm x 170mm)
Weight	1.1 lb (0.5 Kg)

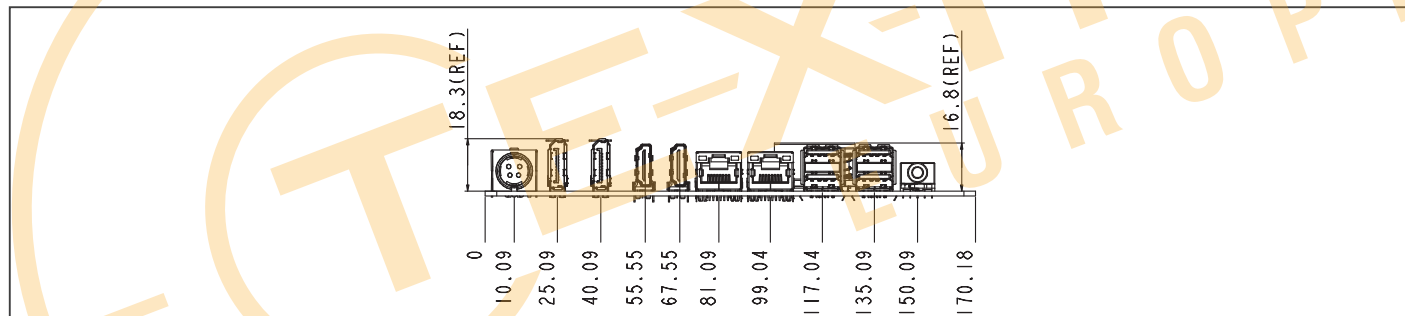
Packing List

- Full High I/O Shield
- SATA Cable
- SATA Power Cable
- MIX-Q670D1



Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	Fan/Fanless	Display	LVDS/eDP	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	TPM	Temp.
MIX-Q670D1-A11	Socket	SODIMM x 2	Fan	HDMI x 2, DP x 2, LVDS/eDP x 1	1	SATA III x 2, M.2 M-Key	GbE x 2	USB 2.0 x 4 USB 3.2 x 4	1	1	M.2 B-Key x 1 M.2 E-Key x 1	DC 12V	2.0	0~60°C

Optional Accessories

Part Number	Description
1701100206	COM Cable (200MM, p=2.00mm)
1255X00011	(TF)AC/DC Adapter.12V.192W.16A.FSP192-AHAN3.9NA1920100
1709100201	USB 2.0 Cable (10P, 200MM, p=2.00mm, w/bracket)
1701100206	COM Cable (200MM, p=2.00mm)
1700100491	USB 2.0 Cable (10P, 490mm, p=2.00mm)
AP-FNTH11700020	(TF).1U CPU cooler for LGA1700,TDP up to 125W.12V.5400RPM.Smart FAN.90°90°25mm.Ablecom.ACL-D11122
AP-FNTH11700030	(TF).2U CPU cooler for LGA1700,TDP up to 125W.12V.8400RPM.Smart FAN.95°95°63.5mm.Ablecom.ACL-D21120
AP-FNTH11700010	(TF).2U CPU cooler for LGA1700,TDP up to 95W.12V.2500RPM.Smart FAN.91°91°.Ablecom.ACL-S41120

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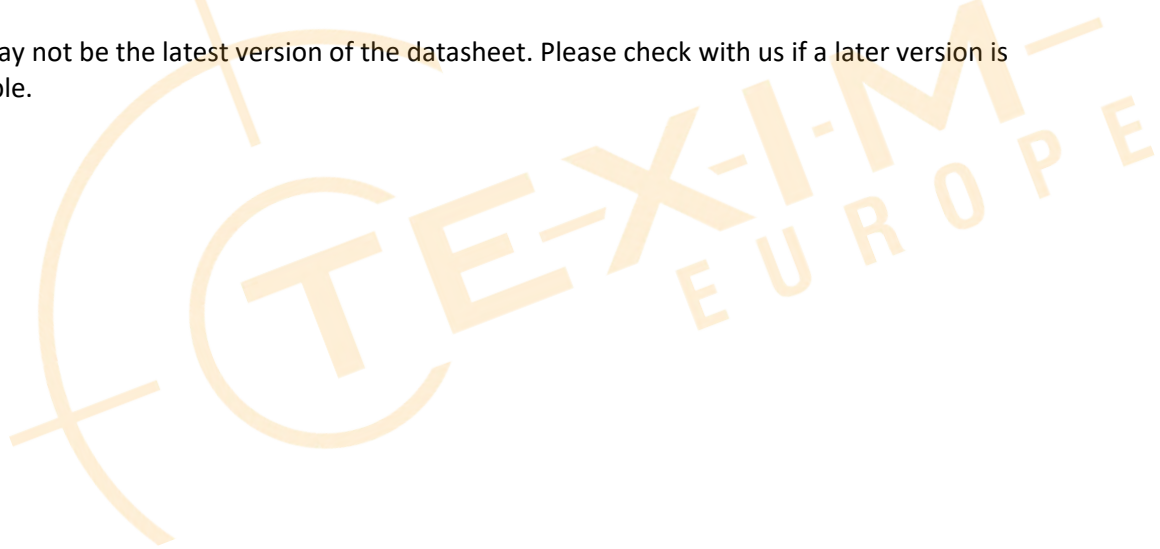
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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