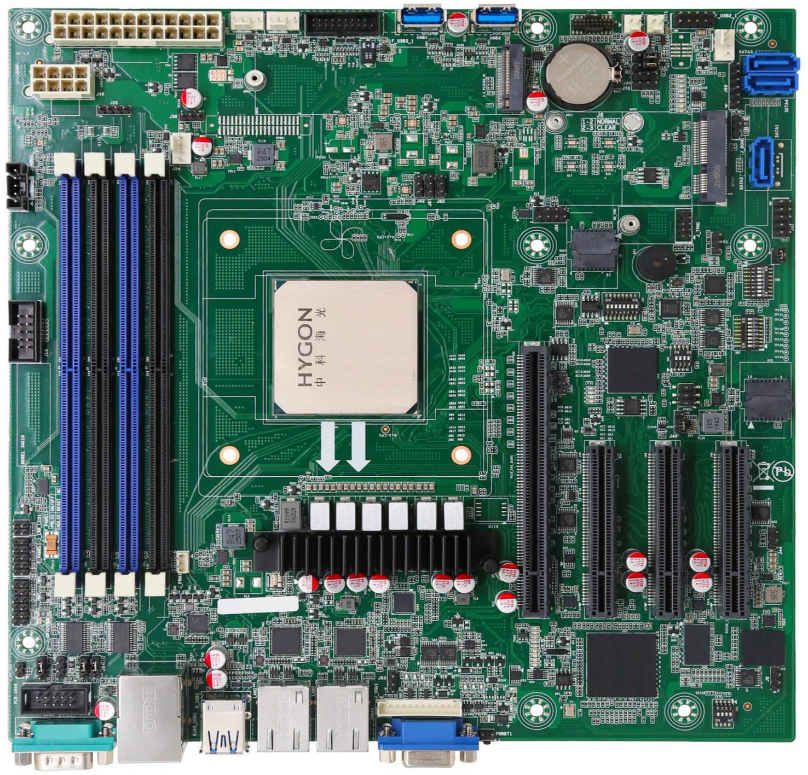
CB-2617

HYGON C86-4G 3490 Processor Series
microATX



Top View

KEY FEATURES

DDR5
4 DDR5 UDIMM up to 128GB

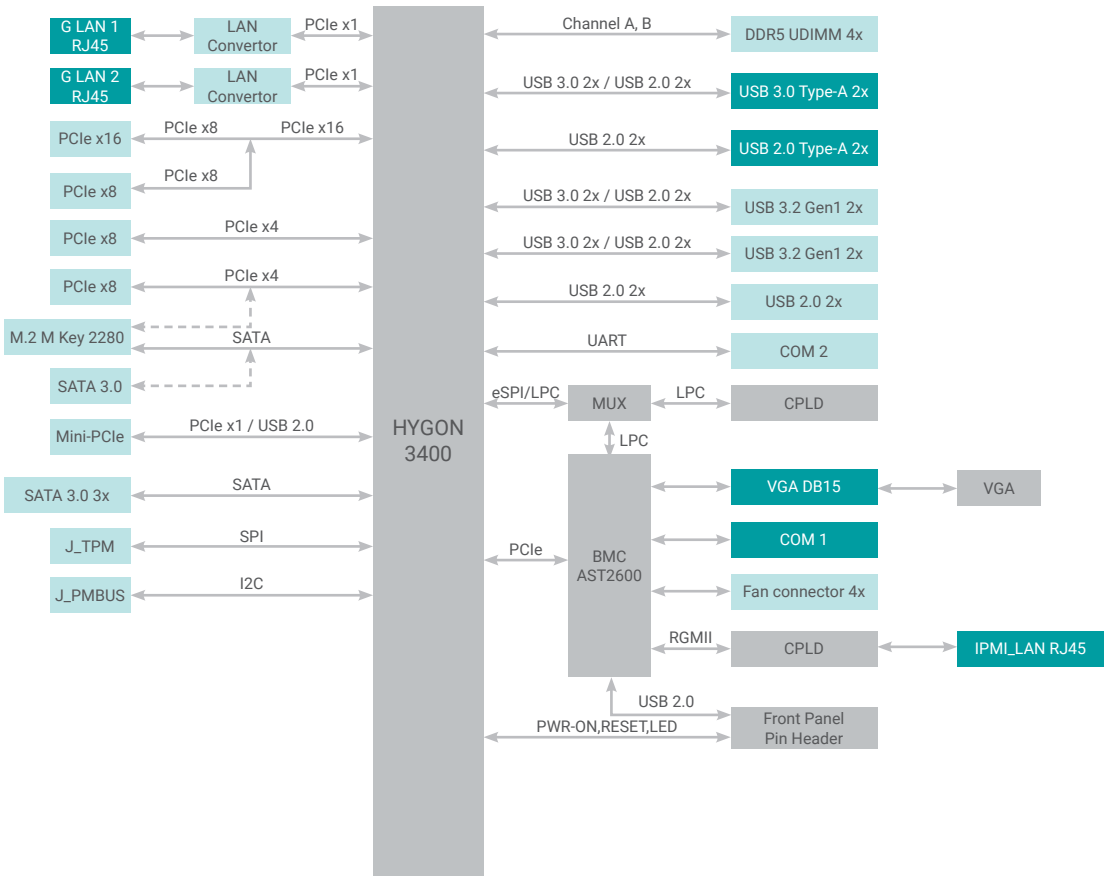
Wide Temperature
Operating: 0 to 60°C
Storage: -20 to 75°C

Dual Displays
1 VGA, 1 VGA (opt.)

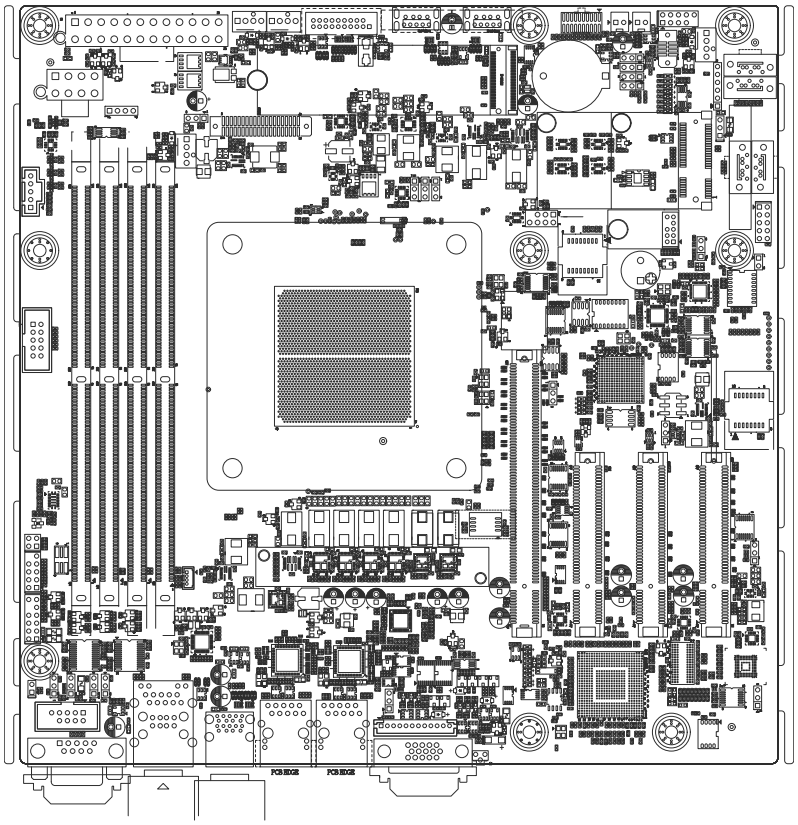
Multiple Expansion
1 PCIe x16, 1 PCIe x8, 2 PCIe x4, 1 M.2 M key, MINI-PCIE

Rich I/O
2 Intel GbE, 1 IPMI LAN, 2 COM, 6 USB 3.2 Gen1, 4 USB 2.0

BLOCK DIAGRAM



MECHANICAL DRAWING



SPECIFICATION

SYSTEM	**Processor**	HYGON C86-4G 3490 Processor Series
	Memory	Four UDIMM up to 128GB Dual Channel DDR5 up to 5200 MHz
	BIOS	Byosoft BIOS
	BMC	ASPEED AST2600 (IPMI 2.0 support)
GRAPHICS	**Display**	1 x VGA (DB15) 1 x VGA (opt. pin header share Rear IO VGA) VGA: resolution up to 1920x1200 @ 60Hz
EXPANSION	**Interface**	1 x PCIe x16 (Gen 4) (1 x16 signals or 1 x8 signals) 1 x PCIe x8 (Gen 4) (N/A or 1 x8 signals) --Support PCIE1/PCIE2 : single at x16(PCIE1)/NA(PCIE4) --Support PCIE1/PCIE4 : dual at x8(PCIE1)/x8(PCIE4) 2 x PCIe x8 (Gen 4) (2 x4 signals)
		1 x M.2 2280 M key (SATA or PCIe Gen4 x4 support) (SATA signal share M.2, PCIE x4 signal share PCIE#3 x8 slot)
		1 x MINI-PCIE (PCIe/USB 2.0/WIFI/Bluetooth support)
ETHERNET	**Controller**	1 x Realtek® RTL8211FS (IPMI support) 2 x Intel® I210AT
REAR I/O	**Ethernet**	2 x 1GbE (RJ-45) 1 x IPMI LAN (RJ-45)
	Serial	1 x COM1 RS232 (DB9)
	USB	2 x USB 3.2 Gen1 2 x USB 2.0
	Display	1 x VGA (DB15)
INTERNAL I/O	**Serial**	1 x COM2 RS232 Header
	USB	4 x USB 3.2 Gen1 2 x USB 2.0
	SATA	3 x SATA 3.0 (up to 6Gb/s) 1 x M.2 (opt.)
	DIO	8, GPIO
	LED	1 x BMC LED 1 x System power LED 1 x Power button LED
WATCHDOG TIMER	**Output & Interval**	System Reset, Programmable via Software from 1 to 255 Seconds
SECURITY	**TPM**	TPM 2.0
POWER	**Type**	ATX
	Connector	8-pin ATX 12V power 24-pin ATX power
	RTC Battery	CR2032 Coin Cell
OS SUPPORT	**Microsoft**	Windows 10/11 64bit Kylin OS
	Linux	Linux
ENVIRONMENT	**Temperature**	Operating: 0 to 60°C Storage: -20 to 75°C
	Humidity	Operating: 5 to 95% RH (No condensation)
MECHANISM	**Dimensions**	microATX Form Factor 243.8mm x 243.8mm
	Height	PCB: 1.6mm Top Side: < 19.0mm Bottom Side: < 4.0mm

PACKING LIST

• 1 CB-2617 motherboard	
• 1 I/O shield	A49-RAP310-000G

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