

ITX-YH122M4_I523V VER:1.0 Spec



ITX-Y122M4_I523V VER:1.0 Front view



ITX-YH122M4_I523V VER:1.0 IO view



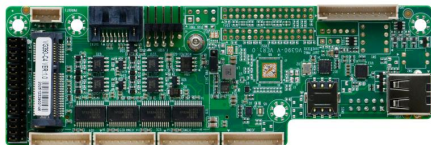
ITX-YH122M4_I523V VER:1.0 Side view

Compatible expansion boards

NO.	Model	VGA	HDMI	LVDS	EDP	LAN	USB	COM	485
1	VG390-L VER:1.0	/	/	1	1	/	3	2	2
2	VG390-C4 VER:1.0	1	/	/	/	/	3	4	4
3	VG390-5G VER:1.0	/	1	/	/	1*8111H	3	4	4
4	YH112-L2 VER:0.1	/	/	/	/	2*I210AT	2	4	4



VG390-L VER:1.0



VG390-C4 VER:1.0



VG390-5G VER:1.0



YH112-L2 VER:1.0

Product Model	ITX-YH122M4_I523V VER:1.0(1235U)
Processor	Features an integrated Intel® Alder Lake 12th Gen Core i5-1235U processor with 10 cores and 12 threads, TDP 15W
	Compatible with Intel® Alder Lake/Raptor Lake-U/P Celeron, Pentium and Core i3/i5/i7 processors
Chipset	SOC
Memory	On-board LPDDR4x 16G memory, 200FBGA
Display	Integrated Intel® Iris® Xe Graphics, supporting DirectX 12 and OpenGL 4.5, with 4K support
	1 * VGA port, supporting a maximum resolution of 1920x1200@60Hz
	2 * HDMI 1.4 ports, supporting a maximum resolution of 3840x2160@24Hz
	1 * dual-channel 24-bit LVDS interface
	1 * EDP interface; either LVDS or EDP can be selected via a jumper
	Supports four independent displays via VGA, HDMI, LVDS or EDP
Network	2 * I210AT 1GbE network cards, supporting Wake-on-LAN and PXE functionality
	Note: The network ports support PoE functionality when used with the YH112-L2 expansion board
Storage	1 * 7-pin SATA 3.0 hard drive interface, with transfer speeds up to 6 Gbps
	1 * M.2 slot, supporting M.2 Key M 2280 NVMe PCIe 4.0 x4 standard SSDs
Audio	Integrated ALC897 7.1+2-channel high-fidelity audio controller, supporting MIC, Line Out and power amplifier
	Supports 4Ω 3W speakers via the power amplifier
Expansion	1 * M.2 slot, supporting M.2 Key E 2230 Wi-Fi/Bluetooth modules
Slots	1 * 120-pin high-speed header, including 4 * TTL, 2 * PCIe, 1 * SATA, 1 * DisplayPort (for use with VG390 series and YH112-L2 mini-boards)
	1 * PCIe 3.0 x4 slot (actual signal is x1)
Rear Panel I/O Ports	4 * Type-A USB 3.0 ports (5 Gbps)
	2 * HDMI 1.4 ports
	2 * RJ45 Gigabit Ethernet ports
	1 * Line-out (green), 1 * MIC (red)
	1 * DC power connector, supports 12 V power supply
	1 * Clear CMOS button

	1 * Power-on DIP switch
On-board I/O Ports	1 * LVDS interface (black), 2 * 15-pin, PH = 2.0 mm, supports dual-channel 24-bit
	1 * LVDS backlight power supply interface (black), 1 * 6-pin, PH = 2.0 mm
	1 * EDP interface (white), 2 * 15-pin, PH = 2.0 mm; either this or the LVDS interface can be selected via a jumper
	1 * EDP display backlight power supply interface (white), 1 * 6-pin, pitch = 2.0 mm
	1 * JVGA header, 1 * 12-pin, pitch = 2.0 mm
	2 * RS232 serial interfaces, 1 * 9-pin, pitch = 2.0 mm, supporting RS485/422 functionality, configurable via jumper settings
	1 * PS/2 keyboard and mouse interface (red), 1 * 6-pin, pitch = 2.0 mm
	4 * USB 2.0 ports, 2 * 5-pin, pitch = 2.54 mm
	1 * front audio interface, 2 * 5-pin, pitch = 2.54 mm
	1 * front panel switch and indicator interface, 2 * 5-pin, pitch = 2.54 mm
	1 * Hard drive power connector: 1 * 4-pin, pitch = 2.0 mm
	1 * Amplifier connector: 1 * 4-pin, pitch = 2.0 mm
	1 * DC power connector: 1 * 6-pin, pitch = 2.54 mm (white); either this or the 2 * 2-pin ATX power connector may be used; supports 12 - 24 V DC power supply (requires a wide-voltage board)
	1 * DC power connector: 1 * 6-pin, pitch = 2.54 mm (red), supports 12V input and output
1 * TPM connector: 2 * 6-pin ESPI specification, pitch = 2.0 mm	
1 * Ethernet POE power connector: 1 * 4-pin, pitch = 2.5 mm	
Fan Connectors	1 * 4-pin CPU smart fan connector, 1 * 4-pin system fan connector
GPIO	Supports 4-channel GPIO input/output functionality
BIOS	128 Mb Flash ROM
Watchdog	Supports hardware reset function (256 levels, 0 - 255 seconds)
Power Supply Type	Powered by 12 V DC
Operating System	Windows 10 / 11 / Linux
Operating	- 10 °C to 60 °C

Temperature	
Storage Temperature	- 20 °C to 70 °C
Operating Humidity	5% - 95% relative humidity, non-condensing
Dimensions	170mm x 170mm

Order information:

No.	Model	Processor	Frequency	Memory	VGA	HDMI	DP	LVDS	EDP	LAN	USB	COM	485/422	Power
1	ITX-YH122M4_I523V VER: 1.0 (1235U)	I5-1235U	Up to 4.4GHz	板贴 16G	1	2	/	1	1	2*210AT	8	2	COM1/2	DC12V