

EPIA Board

VIA EPIA-Mi300 series

Optimized AI workloads platform
for Edge AI applications with Intel
Wildcat Lake Core 3 processors



Features

- Integrated CPU, Xe3 GPU, and NPU delivering up to 40 TOPS for efficient edge AI inference
- Features 4× LAN with optional PoE, 4× COM, and 16-bit GPIO for seamless device integration
- Expandable with Wi-Fi 7, 5G/LTE, Bluetooth, and NVMe via multiple M.2 slots
- Compact 3.5" SBC supporting DDR5, NVMe/UFS storage, and Windows or Linux OS

Specifications

Model Name	EPIA-Mi304	EPIA-Mi315	EPIA-Mi350
Processor	- Intel Core 3 304 Processor • 1P+4LPE Cores / 5 Threads • Up to 4.3GHz for P core and 3.3GHz for LPE core	- Intel Core 5 315 Processor • 2P+4LPE Cores / 6 Threads • Up to 4.6GHz for P core and 3.4GHz for LPE core	- Intel Core 7 350 Processor • 2P+4LPE Cores / 6 Threads • Up to 4.8GHz for P core and 3.6GHz for LPE core
System Memory	- 1 262-pin SO-DIMM socket (supports DDR5-6400MHz; up to 64GB) - In Band Error Code Correction (IB ECC) support		
NPU	- Integrate 1 NPU5		
Storage	- 1 UFS 4.0 flash memory chip - 2 SATA III connector - 1 M.2 2280 M-Key connector for NVMe SSD (supports PCIe x4)		
Graphics	- Integrate 2 Xe3 graphics cores (Core 3 304 supports 1 Xe3 only) • DirectX 12 • OpenGL 4.6 • OpenCL 3.0 • Hardware-accelerated AV1/H.264/265/V9 codec		
BIOS	AMI UEFI 256 Mbit		
TPM	Intel Platform Trust Technology		
USB	VLI VL822 USB 3.1 Gen2 Hub Controller		
PCIe	Microchip PCI1008 Switchtec 7-Port Gen4 PCIe Switch		
PoE Ethernet	Intel I226 2500BASE-T, 1000BASE-T, 100BASE-TX Ethernet Controller		
LVDS	Chrontel CH7515 4 Lane eDP to 4 Channel LVDS Monitor Controller		
Audio	Realtek ALC888S-VD Multi-channel Codec		
SATA	VLI VL715 Super Speed Plus USB 3.1 to SATA 6Gb/s Bridge Controller		
UART	Fintek F81216E eSPI to 4 UART controller		
H/W Monitor	1024-level Watchdog Timer		
Onboard I/O	- 1 M.2 3042/3052 B-Key connector for 4G or 5G module (supports USB 3.0 and USIM) - 1 nano SIM holder - 1 M.2 2230 E-Key connector for WiFi/BT module (supports CNVi for Intel BE211 WiFi7+BT6) - 1 M.2 2280 M-Key connector for NVMe SSD (supports PCIe x4) - 1 LVDS connector - 1 Inverter connector - 2 SATA III connector - 4 COM header (RS-232/422/485, 5V/12V, Auto-flow Control) - 1 USB 2.0 header (support 2 x USB 2.0) - 1 48/57VDC Input connector (for optional PSE power board) - 1 12/24VDC Output connector (for optional PSE power board) - 1 GPIO connector (8 x GPI; 8 x GPO, 5V) - 1 Fan connector - 1 RTC battery holder w/ battery - 1 Clear CMOS jumper header - 1 2x2P DCIN power ATX connector (by request)		

Specifications

Rear I/O	- 1 HDMI connector - 1 DP connector - 4 Ethernet RJ45 connector (2 ports support PSE by optional PSE power board) - 1 USB 4.0 Type-C connector - 2 USB 3.2 Gen2 x1 Type-A connector - 1 Dual port audio jack (Line-out and MIC-in) - 1 Power Status LED - 1 DC-in jack (by default)
Power Supply	12-24VDC
Operating Temperature	Windows 11/Linux
Operating Humidity	0~ 60°C
Form Factor	40°C @ 95% RH Non-Condensing
Compliance	FCC/CE/UKCA