



Preliminary



Features

- AMD Ryzen™ AI Embedded X100 Series Processors
- 4x LPDDR5 up to 256GB/8533
- Graphics: RDNA3.5, NPU: XDNA2
- 3x USB Type-C, 2x USB 3.0, 2x USB 2.0
- 4x QSFP 10GbE, 2x GbE LAN(Ethercat/TSN), 2x LAN 5GbE, 2x GMSL (FAKRA x4 Camera each port)
- 1x MINI50 (2x CAN-FD + 1x RS485 + 1x A2B), 1x OCULINK
- 1x M.2 E-Key for Wi-Fi, Bluetooth or capture card options

Specifications

System Mainboard	CHPCA100 + Carry board
CPU Type	AMD Ryzen™ AI Embedded X100 Series Processors
System Speed	2.9 GHz ~ 5.1 GHz
Memory	4x LPDDR5 up to 256GB/8533
AI Inference Computing Power	Up to 130 TOPs
Front Panel External I/O	2x Mini DP 1x Mic in and 1x Line out) 3x USB Type-C 2x LAN 5GbE 2x USB 3.0 2x USB 2.0 1x Reset and 1x Sleep 2x LED (GPIO header / TBD by client)
Rear Panel External I/O	4x QSFP 10GbE 2x GbE LAN(Ethercat/TSN) 2x GMSL (FAKRA x4 Camera each port) 1x MINI50 (2x CAN-FD + 1x RS485 + 1x A2B) 1x OCULINK 1x DC-IN 2x LED (GPIO header / TBD by client)
Expansion Slot	1x M.2 M-Key Type 2280 1x M.2 E-Key, Type:2230
Storage	1x M.2-2280
Power Requirement	12V ~ 24V DC
Power Supply	1x DC in +12V (-10% tolerance) ~ +24V (+10% tolerance) input, Connector type: 4-pin, 45 W
Construction	SGCC
Chassis Color	Black and White
Mounting Type	Wall mount
Dimensions	275mm x 244mm x 88mm
Weight	3.5 kg
Operating Temperature	0°C ~ 45°C
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	0%~ 90% (non-condensing)
Vibration	Operating: 1 grms / 3~500Hz / random operation
Shock	Operating: 20 g / 11 ms Non-operating: 40 g / 11 ms

Certification	CE, FCC & LVD
Operating System	Windows 11 64-bits Ubuntu 64-bits Yocto