Bedrock RAI300

(optional)

PM 1260
Power Module

Phoenix terminal block

12V - 60V DC

DC-DC converter

19V DC

SoM RAI300
System on Module

2x SODIMM DDR5

DDR5-5600 (Quad channel)

NVMe Gen 4 M.2 key-M 2280

4x PCIe Gen 4

2x SPI FLASH 256 Mbit

SPI

TPM 2.0

SPI

AMD Ryzen™ AI 9 HX 370

RTC

BR2032 RTC battery

19V DC

PCIe Gen 4 9 ports 16 lanes

4x DDI

2x USB 4.0 40 Gb/s

2x USB 3.2 10 Gb/s

4x USB 2.0

3x UART

2x I2C

ESPI

GPIOs

NIO R7000 Basic
Networking & I/O

HDMI 2.1 → HDMI

DP 2.1 → 2x mini-DP

DP 2.1 → DisplayPort

2x Intel I226 2.5 Gbps Ethernet controller

2x 2.5 Gbps Ethernet → 2x RJ45

USB 3.2 10 Gb/s → USB 3.2

USB 3.2 5 Gb/s hub CYUSB3304

3x USB 3.2 5 Gb/s → 3x USB 3.2

UART to USB converter

USB 2.0 → mini-USB (console)

Remote Power Button With LED

19V DC

SX 4M2
Storage & Extension cards

M.2 key-M: NVMe Gen 4 M.2 key-M 2280 **or** Hailo-8™ AI Acceleration Module

PCIe Gen 4 4 lanes

M.2 key-M: NVMe Gen 4 M.2 key-M 2280 **or** Hailo-8™ AI Acceleration Module

PCIe Gen 4 4 lanes

(optional)

2x nano-SIM (accessible trays)

M.2 key-B: 4G / 5G modem M.2 key-B 3042 / 3052

USB 3.2 5 Gb/s

14-Jan-2026