



# reComputer Industrial R22xx-12

The Most Reliable and Powerful Raspberry Pi Edge AI/IOT NVR with 26 TOPS

Parameter	Description
<b>Product Series</b>	R22xx-12
<b>CPU</b>	Raspberry Pi Compute Module 5 – 2.4 GHz quad-core 64-bit ARM Cortex-A76
<b>AI Processor</b>	Hailo-8 M.2 AI Accelerator (26 TOPS, pre-installed)
<b>Operating System</b>	Raspbian, Debian
<b>RAM</b>	8 GB / 16 GB
<b>eMMC</b>	32 GB
<b>Power Input</b>	DC 9–36 V (2-pin terminal block)
<b>PoE</b>	4× PoE PSE (12 W max per port)
<b>Switches</b>	Reboot switch only (no power switch)
<b>Ethernet</b>	4× 1 GbE PoE PSE + 1× 1 GbE
<b>USB</b>	4× USB-A 3.0 host, 1× USB-C (flashing/debug)
<b>Serial Interfaces</b>	2× RS485 (isolated), 1× RS232 (isolated)
<b>CAN</b>	1× CAN-FD (isolated)
<b>DI / DO</b>	4× isolated DI (5–24 V) / 4× isolated DO (<60 V)
<b>Wireless</b>	On-chip Wi-Fi 2.4/5 GHz & BLE 5.0
<b>Cellular</b>	4G / 5G via M.2 B-Key (optional)
<b>LoRaWAN®</b>	Via Mini-PCIe (optional)
<b>Zigbee</b>	Via USB dongle (optional)
<b>M.2 Slots</b>	2× M-key for NVMe SSD, 1× M-key for AI module (pre-installed Hailo-8), 1× B-key for 4G/5G

<b>SIM</b>	1× Nano SIM slot
<b>HDMI</b>	2× HDMI 2.0
<b>Audio</b>	3.5 mm jack
<b>Cooling</b>	Fanless
<b>LEDs</b>	4×
<b>Buzzer</b>	1×
<b>Reset Button</b>	Yes
<b>RTC</b>	High-accuracy real-time clock
<b>Security</b>	TPM 2.0* / ATECC608A
<b>EMC Standards</b>	EN61000-4-2 (ESD), EN61000-4-4 (EFT), EN61000-4-5 (Surge)
<b>Certifications</b>	CE, FCC, TELEC, RoHS, REACH
<b>IP Rating</b>	IP40
<b>Operating Temperature</b>	-20 °C to 50 °C
<b>Storage Temperature</b>	-40 °C to 85 °C
<b>Humidity</b>	10–95% RH
<b>UPS Support</b>	SuperCAP UPS module (optional)
<b>Watchdog</b>	1–255 s
<b>Warranty</b>	2 years
<b>Production Lifetime</b>	Guaranteed until Jan 2036
<b>Included Accessories</b>	Mounting hardware, DIN-rail clip, power adapter (EU/US), terminal block, Wi-Fi antenna, resistor set, manual