

INDUSTRIAL COMPUTING



DIGITAL SIGNAGE



SERVER-BASED
COMPUTING



EMBEDDED / IoT / IIoT



AI / KI



Fanless IS0220

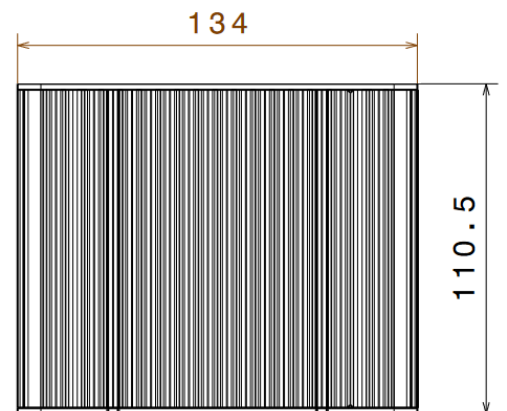


- Perfectly incorporates Raspberry PI ecosystem (Hard- and Software), Compute Module 4
- Up to 8GB RAM and 32GB eMMC
- Use any HAT, any Pi - OS
- Long-term-availability until 2034

IS0220 is a Raspberry PI CM4 -based industrial, rugged embedded system.

It offers high availability for 24/7 operation in harsh environments.

Take advantage of Raspberry PI hardware upgrades (HATs) as well as ready-to-use operating system images. Moreover,



Factsheet

Physical properties	
Chassis	Full-metal aluminium construction, black anodized
Dimensions	134x110.5x52 mm (WxDxH)
Cooling	Passive
Mounting options*	Mounting threads (slot nuts), DIN-rail, VESA, 19"
Weight	0,8 kg
Hardware	
Formfactor	TX-Team ReNUC carrierboard + Raspberry PI CM4
CPU	Broadcom BCM2711, 4x1.5GHz
RAM	1,2,4, 8 GB LPDDR4-3200
Storage	0,8,16,32GB eMMC µCF Card: up to 512GB (only without eMMC usable) SSD (nVMe): up to 2TB
Graphics	SoC integrated, 2x 4k@60Hz
Communication	
WLAN*	802.11 b/g/n/ac + Bluetooth 5.0, BLE
LTE*	4G/5G module
Others	Raspberry PI HAT for Raspberry PI 4 (nearly any vendor and any kind) optional
I/O	
I/O front	DC-In (redundant Wide-Input, PhoenixContact plug)
I/O back	2x USB 2.0, 2x RJ45 (LAN + GLAN), 2x HDMI
I/O internal**	1x 40 pin GPIO header, 1x m.2 key B 2242 (USB + PCIe for SSD/4G-5G/expansion modules), 1x PoE Header, 1x Battery header for RTC, 1x µCF socket, 1x SIM socket
Power supply	
PSU	-
Power input	8..28V DC-In, redundant, PhoenixContact plug PoE 802.11af, 36..56V wide input*
Redundancy	-
Power draw	Idle: ~2.5W, full-load: ~12W
Compatibility	
OS	Raspberry PI OS, Raspberry PI OS legacy, Ubuntu Linux, Lineage OS, Chromium OS, RISC OS, Manjaro, MS Windows 10 IoT Other OS upon request
Others	
Environment	
Operating temp. range / Humidity	-10..+70°C / 10...95%, non-condensing
Protection class	IP50
Compliance	
Conformity	CE, RoHS, REACH
General	
Scope of delivery	IPC, documentation, certificate of conformity
Language	EN, DE
Long-term-availability	Until 2034
Warranty	3 years, 4/5 years*
Country of Origin	Germany
Tariff code	84715000

*Depending on actual system configuration / may require optional accessory

**Maybe occupied due to actual system configuration