



## RAIL PC VC7 & VC8 SERIES

Our vehicle computers ("Rail-PC") of the VC series were specially developed for use on rail vehicles. The integrated uninterruptible power supply (UPS) and the cooling concept, which works in every mounting position, deserve special mention. The modular device design with the large selection of different processor technologies, the expandability with various interfaces and the universal mounting options using optional mounting frames offer a wide range of applications.

### At a glance

- Universal mounting option, whether lying down or upright, the cooling concept always fits
- All connections on the front
- Compact design
- Modular structure, interfaces configurable
- Extension via 4 mini PCIe slots possible (e.g. MVB, GSM, WiFi, video)
- Wide range power supply 24 - 110 V DC (+/-40%)
- Integrated, maintenance-free UPS with double layer capacitors (DLC)

### Processor variants

#### VC7xxx

- Powerful Intel Atom x-5 Apollo Lake processor
- Outstanding video/graphics performance
- Operating systems: Windows, Linux, QNX
- Optional: up to 4 analogue video inputs

#### VC8xxx

- Processor Nvidia Jetson Orin
- Operating systems: Linux

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## TECHNICAL DATA

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Technical data	VC74xx	VC8xxx
Processor	Intel E3940, quad core 1.8 GHz	Nvidia Jetson Orin
Memory (RAM)	4 GB DDR3L	4 - 8 GB
Memory	4 GB eMMC on board flash ≥ 2 GB CFast card ≥ 16 GB SSD on board	M2 card
Additional memory card	SD card (slot)	/
Display	Connection via DVI-D interface, optionally HDMI and DVI	
Keyboard	Keyboard via USB connection (service interface)	
Interfaces, expansion options	Basic device: 1x Ethernet 10/100 MB, 1x USB 2.0, 1x RS232/422/485 configurable Under the service flap: 1x USB 2.0 (service keyboard connection), 1x USB 3.0 (service stick) Internal (option): 3x Mini PCIe slots	
Power supply	Wide range power supply for input voltages from 24 - 110 V DC (+/-40 %) with integrated UPS function (30 seconds) to bridge brief power supply interruptions and for safe, data-loss-free shutdown of operating system and application	
Environment Controller	Temperature and power management Status and diagnostic LEDs on the front (power, under/over temperature, error, UPS operation)	
Operating temperature	-40 °C to +70 °C (10 min +85 °C) in accordance with EN 50155 Tx	
Operating system and hardware drivers	Windows 10 IoT LINUX, QNX	LINUX
Standards / norms	EN 50155, EN 50121-3-2, EN 60068, EN 61373, EN 45545	
Dimensions WxHxD	280 mm x 68 mm x 220 mm	
Options (on request)	Different mounting flanges 2x ETH 100 Mbit, 2x GbE, GPS, GSM-R, CAN, MVB, audio, up to 4 analog video inputs) Digital I/O (2x In, 2x Out)	tbd