

Rail-PC

VC7-series

The Rail-PC of the VC7-series was especially designed for the operation on railway vehicles. Highlights are the integrated uninterruptible power supply (UPS) and the sophisticated cooling concept, which works at horizontal and vertical installation. The modular concept with different processor technologies, expandability with various interfaces and the universal mounting possibilities with optional mounting frames offer a large bandwidth of potential areas of use.

At a glance

- universal mounting, whether horizontal or vertical, the cooling concept works perfectly
- all connectors on front
- slim design
- modular concept, configurable interfaces
- expansion via 4x Mini-PCIe slots possible (e.g. MVB, GSM, WiFi, video)
- wide range power supply 24-110V DC (+/- 40%)
- integrated, maintenance-free UPS with Double Layer capacitors (DLC)

Processor versions:

VC7xxx

- powerful Intel Atom x-5 Apollo Lake processor
- brilliant video/graphic performance
- OS: Windows, Linux, QNX
- optional: up to 4 analog video inputs



Horizontal mounting



Mounting flange for vertical installing

Specifications

Specifications	VC74xx	VC70xx (coming up)
Processor	Intel E3930, E3940, E3950 Dual-, Quad-Core 1,6 – 2,0 GHz	ARM Cortex™ A9 Quad Core 800 MHz
RAM	2 - 8 GB DDR3L opt. with ECC	1 GB DDR3
Storage	4 GB eMMC on board flash ≥ 2 GB CFast-Card ≥ 16GB SSD on board	4 GB eMMC on board flash
Additional card	SD-Card (Slot)	≥ 1 GB SD-Card
Display	Connection via DP (Display Port) and VGA interface, optional HDMI, DVI	
Keyboard	Keyboard via USB (Service interface)	
Interfaces	Basic unit: 1x Ethernet 10/100MB, 1x USB 2.0, 1x RS232/422/485 configurable Behind service lid: 1x USB 2.0 (keyboard, service), 1x USB3.0 (Service-stick) Internal (optional): 3x Mini-PCIe slot	
Power supply	Wide range power supply 24 – 110V DC (+/- 40%) Integrated, maintenance-free UPS with Double Layer capacitors (DLC) for bridging of brief voltage dips (30 seconds) and secured shutdown of the OS and application without data loss	
Environment Controller	Temperature and power management Status and diagnostic LEDs on front (Power, low/high temperature, errors, USP operating)	
Operating temperature	-40°C up to +70°C (10 min +85°C) acc. to EN 50155 Tx	
Operating system and hardware drivers	Windows 10 IoT LINUX, QNX	LINUX, QNX
Standards / Norms	EN 50155, EN 50121-3-2, EN 60068, EN 61373, EN 45545	
Dimensions WxHxD	280mm x 68mm x 220 mm	
Options (on request)	Customized design, different mounting frames 2x ETH 100Mbit, 2x GbE, GPS, GSM-R, CAN, MVB, audio, up to 4 analog video inputs) Digital I/O (2x in, 2x out)	

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