

CBox Family

C900 Rail



Key features

- * Central point of data communication between vehicle and backoffice
- * Routes data between different data sources: Ethernet, Wi-Fi, 4G/5G/LTE
- * Acts as a real-time GPS information source onboard
- * Designed and certified for use in railway
- * Also certified for public transport vehicles: bus, tram as a 5G alternative
- * Possibility to host third-party applications
- * More than a switch – real CPU possibilities
- * Fanless design without moving parts

Technical Specifications

COMPUTER	i.MX8M Mini with 4x Arm [®] Cortex [®] A53 8GB eMMC, 2GB LPDDR4-RAM 32 GB SD card
OPERATING SYSTEM	Standard Yocto Linux + SDK + developer guide
ELECTRICAL INTERFACES	Switch: 6 x M.12 Ethernet ports (10/100 Mb/s) Processor: 1 direct M.12 Ethernet port (10/100 Mb/s) External antenna SMA connectors (option) All connectors are on top of the system (as shown on the pictures)
EXPANSION SLOTS	5G/4G/GPS/WiFi/Bluetooth through M.2 extension modules Dual SIM support All connectivity modules require an external antenna
SENSORS	Inside temperature sensor
POWER	Input 9 to 36 VDC with reverse polarity protection 24 VDC nominal
OPERATING ENVIRONMENT	Operating temperature : -20 to 70°C Relative humidity: 5 to 95%, non-condensing Ingress protection: IP54 (EN 60529)
DIMENSIONS (TOTAL)	50 x 300 x 120mm HxWxD (excluding antenna connectors)
WEIGHT	0,5 Kg
STANDARDS	CE Marking Directive' (93/68/EEC), including: • Electromagnetic Compatibility (EMC - EN55022) • EN55024, Immunity standard • Electromagnetic interference ECE R10 Rev.6 • Burning behaviour ECE R118 Rev.2 • EC2004/104 and 7637-2 • Radio Equipment Directive (RED) EN 50155:2018 Railway applications – Rolling Stock – Electronic: • Operating temperature class: OT3 • Switch-on extended operating temperature class: ST1 • Rapid temperature variations class: H1 • Shock and vibration: EN 61373 category 1 class B • Interruption voltage supply class: S2
MECHANICAL	L shaped fixtures on both sides Aluminium housing with interface names indicated

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Technical data is subject to change without prior notice