

Board Computer

BC900/1



Key features

- * High quality, vehicle application- and communication hub
- * Multipurpose computer used for vehicle control, camera systems, etc.
- * Designed and certified for use in public transport vehicles: bus, tram, train
- * Fanless design without moving parts
- * Latest generation Atom system-on-chip (SoC) which has an integrated GPU and the Intel UHD Graphics
- * Adaptable and easy mounting solution for your vehicles
- * System Diagnostic Tool
- * ITxPT ready

Technical Specifications

COMPUTER	SMARC module including: - Intel Atom® series X x6413E, 4 cores @ 1.5 GHz (up to 3 GHz in turbo mode) system-on-chip (SoC) - Intel® UHD Graphics for 10th Gen Intel® Processors @500MHz (750 MHz in burst mode) 8 GB LPDDR4-3200, with IBECC 32 GB eMMC 5.1 Removable memory card CFexpress 160 GB Trusted Platform Module 2.0
OPERATING SYSTEM	LINUX Debian 10 « Buster » (LTS) or Windows 11
ELECTRICAL INTERFACES	Power: 1 x M12 A-coded, 5-pin male Gigabit Ethernet: 1 x M12 A-coded, 8-pin female Fast Ethernet 1 x M12 D-coded 4-pin female Antennas: 6 x TNC female Located behind maintenance cover: 1 x HDMI 1 x USB type A (USB 2.0) 1 x µSD 2 x SIM
EXPANSION SLOTS	1x M.2-B for WWAN modems (30x52), equipped with 5G/4G/3G-module 2x M.2-E for WLAN modems (28x30), each equipped with a WiFi 6 module
SENSORS	Inside temperature sensor
POWER	24 VDC nominal, Average power consumption: 12W Maximum power consumption: 30W galvanically isolated EN 50155 Class S2 (Maintain normal operation throughout interruption of ≤ 10 ms) Power Ignition control Reverse polarity protection
OPERATING ENVIRONMENT	Operating temperature: -25 °C to +70°C IP54 Front panel Altitude Maximum: 1400 m
DIMENSIONS (TOTAL)	274x182x79 mm (excluding 19" mounting plate and connectors) 482x249.5x130 mm (inside 19" mounting plate)
WEIGHT	~4 Kg (with 19" mounting plate)
MTBF	180.000 hours without extensions
STANDARDS	CE: Directive - CEM 2014/30/EU (E ECE R10 & EN50121-3-2) - Directive RoHS 2011/65/EU - Radio 2014/53/UE (RED) (antennas excluded) Automotive compliant: - ECE R10 (ISO 7637-5 Level III) - Fire compliant: ECE R118 Railway compliant: - EN50155: - EN45545-2 :2020 Other - EN60529: IP54 - EN62262: IK07
DIAGNOSTIC TOOL	Journaling system information - Diagnostic Webpage hosted - Monitoring through SNMP, MQTT
APPLICATIONS	5 LEDs for operating status: VIN, ON, IGN, MCU1 and MCU0 2 LEDs for User Application Purpose: USR0, USR1 The hardware is ITxPT-ready

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Technical data is subject to change without prior notice