

IN-VEHICLE SERVER



In-Vehicle Server with Modem

- ▶ rugged, fanless, IP67, application computing platform for vehicles
- ▶ small form factor with high performance Intel® Atom™E3845 processor @ 1.91 GHz
- ▶ GbE port and fully ISO 11898-2 compliant CANBUS 2.0 A/B
- ▶ 3G/4G LTE Modem with GPS and remote out antenna
- ▶ 9-36 VDC vehicle power input with surge protection and filtering

Kontron's In-Vehicle computer leverages the 4th generation Intel® Atom™ processors on Kontron's hardened Type 6 COM Express® CPU module coupled with a ruggedized Carrier Board, all packaged in a natural convection, sealed IP67 enclosure to survive rigorous environmental conditions for on and off -road vehicle use. Featuring a compact COMe E3845 (quad core @ 1.91 GHz) module, the In-Vehicle system is designed to be a computing platform for extreme rugged In-Vehicle applications. Mechanically compact, this small form-factor computer subsystem integrates Gigabit Ethernet and a single CAN bus interface that supports 2.0 A and B, along with two USB 2.0 interface, and cellular wireless connectivity.

The unit comes with an embedded 64 GB MLC eMMC for onboard storage and a 3G/4G modem with GPS for wireless connectivity and a spare mSATA slot for additional storage. Designed for rugged vehicle applications and environments, the In-Vehicle Server has been tested for use under extreme temperature (-40° C to +80° C) and other demanding environmental conditions (shock, vibration, humidity, salt fog). The conduction cooled, IP67 sealed chassis incorporates protection from water and dust ingress, as well as CISPR25 emissions and ISO 11452-2 susceptibility.

► TECHNICAL INFORMATION

PROCESSOR	Intel® Atom™ Processor E3845 Quad Core @ 1.91 GHz
MEMORY	4GB DRAM, non-ECC
OPERATING SYSTEM	Linux Ubuntu 16.04 LTS installed; Windows OS supported (contact factory)
STORAGE	64GB eMMC, MLC Expansion storage via mSATA (Optional)
ETHERNET PORT	One (1) Ethernet 10/1000/1000BT Port M12 X-coded female connector
CANbus	One (1) CANbus 2.0 A/B, ISO 11898-2 compliant; speeds up to 1Mb M9 A-coded female connector
CELLULAR MODEM	3G/4G cellular modem & GPS with embedded uSIM One (1) TNC, isolated RF connector for external antenna (3G/4G) One (1) TNC, isolated RF connector for external antenna (GPS)
USB 2.0	Two (2) USB 2.0, up to 1.5 A changing capability with built-in current protection M12 A-coded female connector
LEDs	One (1) Power On LED; One (1) Systems Status LED
POWER INPUT	Input voltage wide range 9 – 36 VDC (10ms interrupt) M8 male connector
WEIGHT	4.7 lbs (2.13 Kg)
TEMPERATURE	-40°C to +80°C operating; there may be some performance reduction in temperatures below -30°C and above + 70°C
VIBRATION	5 Hz to 2000 Hz, Random, 1hr each axis, 8.21 GRMS Power Spectrum Density
SHOCK	40g, 11ms sawtooth
DIMENSIONS	8.4" (213.36mm) H x 10.19" (258.82mm) W x 2.64" (67.05mm) D

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