

# EvoTRAC™ G103



## In-Vehicle Rugged Cellular Gateway & WIFI

- ▶ Rugged, fanless, IP67, application computing platform for vehicles
- ▶ Small form factor with high performance Intel Atom® E3845 processor
- ▶ dual GbE ports, dual CANbus 2.0 A/B ports, and dual USB 2.0 ports
- ▶ 802.11ac/bgn WiFi Access Point with integrated antenna
- ▶ 4G LTE+ with 2x RF connections and dual SIM
- ▶ 9-36VDC vehicle input power with surge protection, filtering and ignition switch

POSSIBILITIES START HERE



# EvoTRAC™ G103

Kontron's EvoTRAC-G103 Gateway leverages the Intel® Atom™ processor 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 module, the EvoTRAC-G103 is designed to be a Gateway Platform for extreme rugged In-Vehicle applications. Mechanically compact, this small form-factor system integrates dual Gigabit Ethernet and dual CAN bus interface that supports 2.0 A and B, along with two USB 2.0 interface, and WiFi, 4G Advanced Pro+ for wireless connectivity.

The system includes 64GB eMMC for onboard storage, a WiFi and 4G LTE module for wireless connectivity and optional fixed storage capacity. Designed for rugged in-vehicle applications and environments, the EvoTRAC-G103 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

<b>PROCESSOR</b>	Intel Atom® Processor E3845 Quad Core @ 1.91 GHz
<b>MEMORY</b>	4 GByte DRAM
<b>OPERATING SYSTEM</b>	Linux Ubuntu 16.04 LTS installed; Windows OS supported (contact factory)
<b>STORAGE</b>	64 GByte eMMC, MLC Expansion storage via 2.5" SSD (Optional)
<b>ETHERNET PORT</b>	Two (2) Ethernet 10/1000/1000BT Port M12 X-coded female connector
<b>CANbus</b>	Two (2) CANbus 2.0 A/B, ISO 11898-2 compliant; speeds up to 1Mb M12 A-coded female connector
<b>CELLULAR MODEM</b>	4G cellular modem & GPS with dual SIM slot One (1) TNC, isolated RF connector for external antenna (main) One (1) TNC, isolated RF connector for external antenna (AUX, diversity or GPS)
<b>USB 2.0</b>	Two (2) USB 2.0, up to 1.5 A charging capability with built-in current protection M12 A-coded female connector
<b>LEDs</b>	One (1) Power On LED; One (1) Systems Status LED
<b>POWER INPUT</b>	Input voltage wide range 9 – 36 VDC with ignition switch signal input M8 male connector
<b>WEIGHT</b>	4.7 lbs (2.13 kg)
<b>TEMPERATURE</b>	-40 °C to +80 °C operating; there may be some performance reduction in temperatures below -30 °C and above +70 °C
<b>VIBRATION</b>	5 Hz to 2000 Hz, Random, 1hr each axis, 8.21 GRMS Power Spectrum Density
<b>SHOCK</b>	40 g, 11 ms sawtooth
<b>DIMENSIONS (H x W x D)</b>	8.4" (213.36 mm) x 10.19" (258.82 mm) x 2.64" (67.05 mm)

## ▶ ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION
EvoTRAC G103	78500906-103	EvoTRAC-G103, WIFI & CELLULAR
EvoTRAC G103	78500906-500	EvoTRAC GATEWAY External Cable Kit

Note: For other standard or modified configurations consult factory

## ▶ GLOBAL HEADQUARTERS

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