



# R303 wireless 3G /GSM /WiFi and ISM Router with GPS

## Embedding IoT connectivity



### Description

The R303 module is a compact low power ruggedized wireless router with support for 3G/GSM, GPS, Bluetooth, BTLE, 2.4/5Ghz WiFi and ISM wireless connections to IoT local cloud networks, external cable interfaces for Ethernet, USB, serial port and optional external input for analogue input, pulse, flow, gas or strain gauge sensors

The R303 uses 9-48V vehicle power input, has internal battery backup option and is optimized to provide a reliable mobile or fixed wireless hub in remote data acquisition or control applications.

Power and other connections are IP65 sealed with M12 connectors.

## Highlights

<b>CPU</b>	TI AM3358 ARM ® 1 GHz Cortex™ A8	<b>Operating Systems</b>	Linux
<b>Memory</b>	512 MB DDR3	<b>Wireless interfaces</b>	3G/GSM/GPRS 2.4Ghz / 5Ghz WiFi 802.11 a/b/g/n Bluetooth 3.0/ 4.1/ Smart GPS, Glonass or Beidou ISM 2.4Ghz or 868Mhz
<b>Flash</b>	2/4 MB Nand Flash + uSD socket	<b>Cable sensor inputs</b>	Analogue or digital with internal AFE options.
<b>Ethernet</b>	100Mb/s with PoE	<b>Cabinet size</b>	155*115*45 mm
<b>USB</b>	1-2 channel USB 2.0	<b>Environment spec</b>	-40 to +60, IP65
<b>Serial Ports</b>	1 COM with RS232 optional RS485		
<b>Power</b>	9-48V, 2-3 W 802.3af PoE Solar Cells (Internal LiPo UPS)		

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