

APPLICATIONS

G1 MicroRouter connects RS-485 full duplex network to LonWorks FT-10 based network. When loaded with protocol specific app such as the G1-EnOcean it provides powerful and flexible gateway to bring-in (read) sensor information from wireless EnOcean sensors to LonWorks wired network. EnOcean sensors typically harvest energy and do not depend on battery power making them virtually maintenance free.

A typical application is to use wireless wall-mounted switches in a lighting control application where the lights are controlled by LonWorks devices. LonWorks devices receive the switch commands by the EnOcean wireless link.

Another application example is to use LonWorks devices to control HVAC hardware such as VAVs or Fan Coils and the EnOcean wall-mounted temperature sensors.

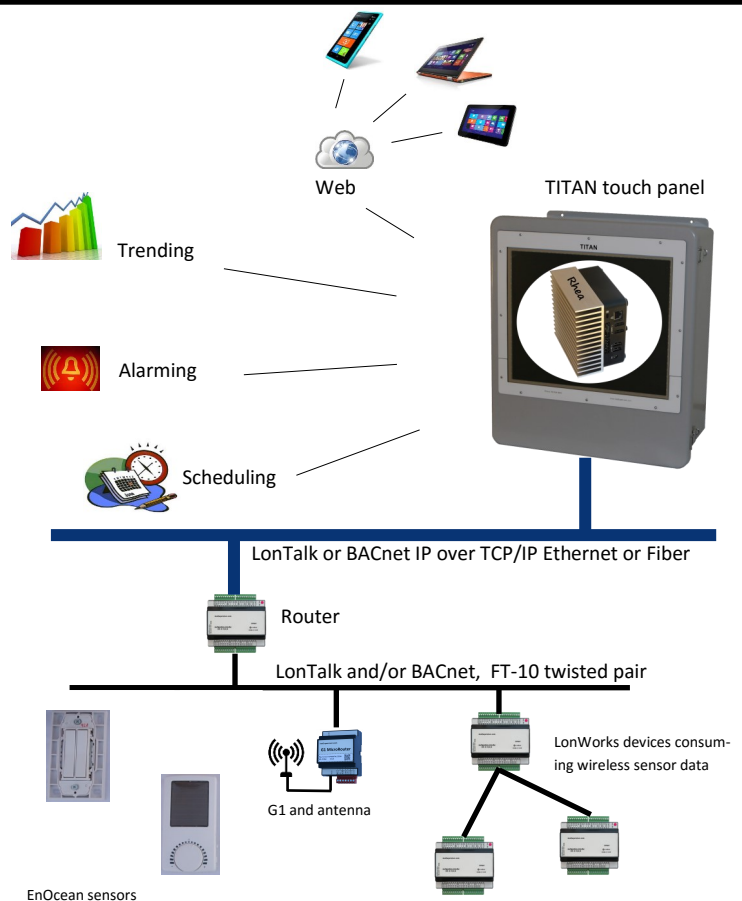


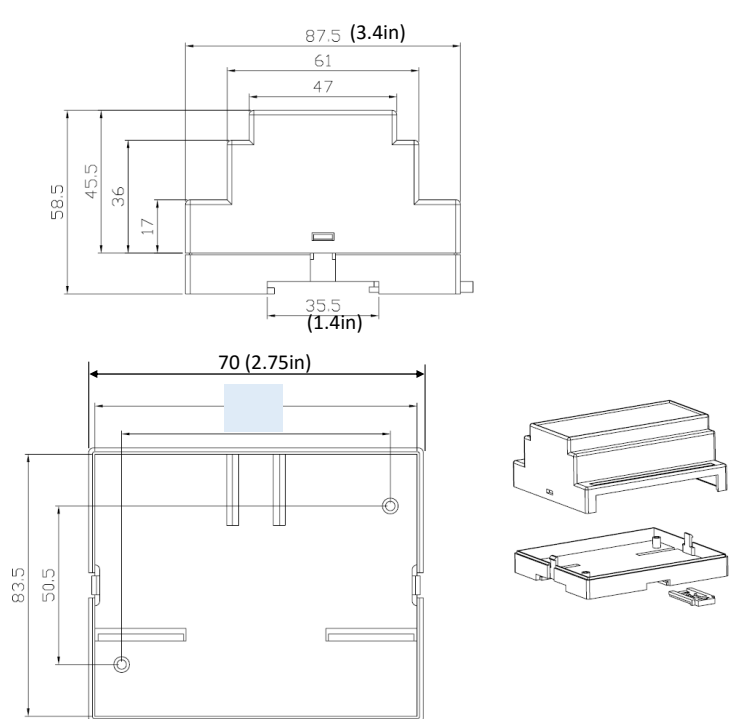

HW Part Number: G1-MicroRouter

OVERVIEW

The G1 device is a microprocessor based configurable gateway. Protocol specific apps can be loaded into the gateway. Currently we support an EnOcean app. Refer to the G1-EnOcean App data sheet for more information.

G1 connects by way of straight-through CAT5 patch cord to the antenna. The antenna is specific to the required frequency. Standard CAT5 cable connects the VA-BUS port signals from the G1 gateway to the VA-BUS on the antenna. The VA-bus includes several comm. signals and power for the antenna. The antenna is EnOcean specific and frequency specific. Currently www.echoflexsolutions.com offers an antenna for 902MHz frequency for use in the USA.



I/O CONFIGURATION	MECHANICAL	
<p>There is no physical I/O present on the G1 gateway. This device is a protocol translation hardware only.</p>	Hardware	
	Processor	FT-5000, 8bits, 80MHZ
	Memory	48k application memory
	Transceiver	FTT-10; 78kbps
	Transceiver	RS-485 full duplex
	Indicators	Green LED, power, status, service pin
	Comm Ports	RJ11, LON, TTL
	Power	
	Supply Voltage	24VAC; 50/60Hz; Class II
	Max	30VA
	Typical	6VA plus peripherals
	Fuse	1.85A auto-resettable
	Enclosure	
	Material	ABS
	Color	Black
	Installation	35mm DIN
	Connectors	Removable (Green)
	Environment	
	Temperature	0°-70°C (32°-158°F)
	Humidity	0-90% non-condensing
	Storage	-20°- 70°C (-4° - 158°F)
		
AGENCY APPROVALS		
Safety Certifications	CE	
 CE RoHS		