

EG-800 TECHNICAL SPECIFICATIONS

LTE

Category	Cat 6 (Downlink up to 300Mbps, Uplink up to 51Mbps)		
Frequency Bands		EMEA and APAC (excl. Japan and China)	North America
	LTE-FDD	B1/B3/B5/B7/B8/B20/B28/ B32*	B2/B4/B5/B7/B12/B13/ B25/B26/B29*/B30/B66
	LTE-TDD	B38/B40/B41	/
	UMTS-WCDMA	B1/B3/B5/B8	B2/B4/B5
SIM Slots	2 Micro size SIMs (12 x 15mm)		

* LTE-FDD B29 and B32 support receiving only, and are only for secondary component carrier in 2xCA

External Physical Connections

2x SMA-RP female	Wi-Fi / Bluetooth	
2x SMA	4G / LTE	
1x SMA	GNSS	
RJ45	10/100Mbps Ethernet	
HD26 female	GPIOs	Codec Audio In
	Audio In	Codec Audio Out
	Audio Out	RS485
	Aux Power Out (VBatt and 5V)	I2C
	UART4	CAN-Bus
USB Type C Socket	USB	

Software and Management

Remote Management	Velocity Remote Manager (VRM)
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Security

Security Standard	Meets PCI-DSS specifications (Payment Card Industry Data Security Standard)
VPN	OpenVPN Client
Additional security features	Demilitarized Zones (DMZ)
	MAC filtering
	IP filtering
	Port filtering
	Port forwarding

Physical Specifications

Size	160 x 48 x 212mm
Weight	1.2kg
Input Voltage	9-36VDC
Power Consumption @ 13.6v	< 200mA (idle), < 1.5A (WiFi and LTE active, USB & aux power out OFF) < 3.0A (WiFi and LTE active, USB & aux power out ON with max load)
Operating temperature	-30°C to +70°C
IP Rating	Designed for IP54
Enclosure	Extruded aluminium

External Interfaces

Ethernet	1 port 10/100Mbps			
WiFi	Frequency:	2.4GHz / 5GHz		
	Standards:	IEEE802.11a/b/g/n/ac		
	Streams:	2x2 MIMO		
	Data Speed:	Up to 866.7Mbps		
Bluetooth	Bluetooth 5.1, Dual Mode (Classic + BLE)			
USB	High Speed USB 2.0 Host or Client (Up to 480Mbps) Max current 500mA			
Serial Ports		Serial Port 1	Serial Port 2	Serial Port 3
	Connector:	DB9 pins 2 & 3	DB9 pins 8 & 7	HD26 pins 10 & 11
	Type:	2-wire*		
	Baud Rate:	Programmable up to 115,200 bps		
	Encoding:	NRZ		
	Data Words:	7 or 8 bit		
	Stop Bits:	1 or 2 bits		
	Parity:	Even, Odd or None		
	Levels:	RS232	RS232	5V TTL

* 4-wire serial ports as a bespoke build

General Purpose IOs (GPIOs)	GPIO								
		1	2	3	4	5	6	7	8
	Type:	Software Defined as Input or Output						Output (Solid State Relay)**	
		Input		Output		Solid State Relay			
		Active-Low		Type: Open Drain (Active Low)		Type: Galvanic isolated Normally Open (NO) Contacts			
	2.2kΩ pull-up resistor to 5V		Max Voltage (Inactive): 40V		Max Voltage (Inactive): 100V				
	1.6V Trigger Threshold with hysteresis		Max Current (Active): 250mA R (Active) = 1.5Ω (typical)		On resistance: <35Ω (22Ω typical)				
					Max Sink Current (Active): 120mA				
Line Audio In	Max: 2.5Vp-p, 600Ω, 100Hz-10kHz, Transformer-Isolated, SW-selectable gain								
Line Audio Out	Max: 7Vp-p, 600Ω, 100Hz-10kHz, Transformer-Isolated, SW-selectable gain								
Codec Audio In	Max: 0.7Vrms, 10kΩ (for connecting to an SDM600 mobile radio)								
Codec Audio Out	Max: 0.7Vrms, 2kΩ (for connecting to an SDM600 mobile radio)								
Aux Power Out	VBatt (1.25A max) and 5V (0.5A max)								
GNSS	GPS / GLONASS / Beidou								
I2C*	Full Speed (Up to 400 kbit/s)								
RS485*	9 bit multidrop support								
CAN Bus*	Version 2.0 B								

*Subject to bespoke build

**Input as a bespoke build

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Velocity EC-800- v.1.6

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