

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 standard size SIMs (15 x 25mm)		

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

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	BT 2.1+EDR / BLE 4.2			
USB	High Speed USB 2.0 Host or Client (Up to 480Mbps) Max current 500mA			
Serial Port (UART4)	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:	5V TTL		
General Purpose IOs (GPIOs)	Up to 8 lines: (GPIO 1-6 Software defined as Input/Output) (GPIO 7 & 8 configured as 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 On resistance: <35Ω (22Ω typical)
		1.6V Trigger Threshold with hysteresis	Max Current (Active): 250mA R (Active) = 1.5Ω (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

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)
HTTPS Connection	VRM Web Server
Transmission	Secure transmission between VRM server and end devices (MQTT TLS protocol)
VPN	Devices can be configured with a secure VPN connection ensuring sensitive information is encrypted
Demilitarized Zones (DMZ)	Allows administrators to form an extra layer of security and protection against external attacks
MAC filtering	Additional security measure limiting specific MAC addresses across the network
IP filtering	Provides a mechanism in blocking your network from intruders
Port filtering	Allowing or blocking network packets into or out of a device or the network based on their application (port number)
Port forwarding	Allowing you control in managing remote connections to your network

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

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