

POWERAMR IOT GATEWAY

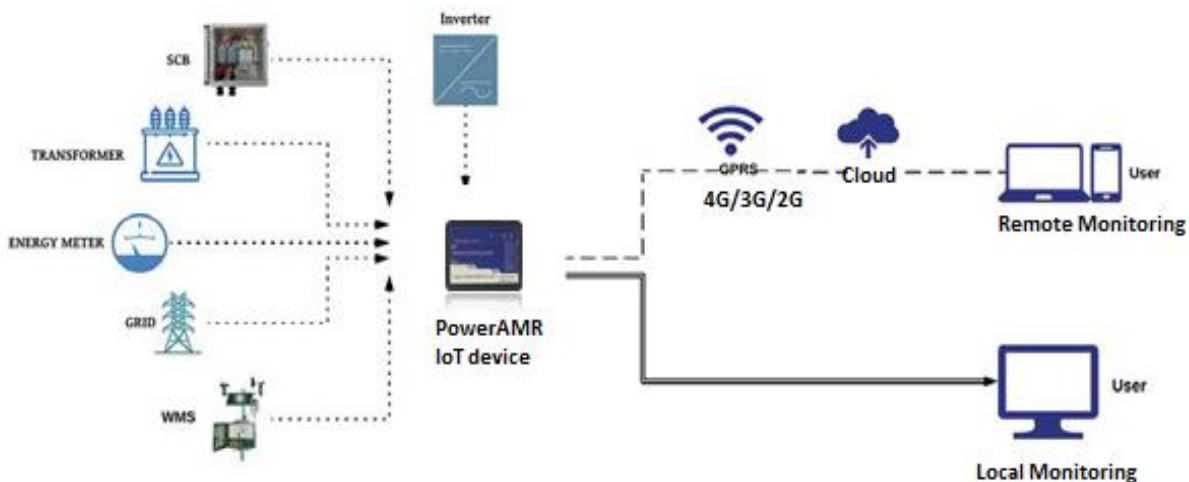


Logics PowerAMR data loggers are plug ‘n’ play, most flexible, robust and scalable IoT devices which provides you full access for Seamless Monitoring. These solar data loggers are compatible with all Grid-Tie, Hybrid and Off-Grid setups, Solar Water Pumping and Building Loads, energy meters, weather stations, string monitoring systems, switchgears and analog, digital and MODBUS enabled sensors

**Applications**

- **Inverter Monitoring**  
Inspect generation and efficiency of grid-tie and hybrid inverters.
- **AC/DC Power Monitoring**  
Supervise load and performance of substations and mini-grids, and monitor battery voltage.
- **Weather Station Monitoring**  
Observe irradiation, temperature and other atmospheric conditions.

System Architecture



## Specifications- E Track 4 G Advanced

System	CPU	ADV System CPU ARM Cortex
	SRAM	32 Kbytes
	Flash Memory	512 Kbytes
	Data Log Flash Memory	128MB
	WDT(watchdog)	Yes
	RTC	Onboard RTC
	Protection	2 KV Surge Protection on RS 485
Modem	LTE	LTE FDD: Max 150Mbps (DL)/Max 50Mbps (UL) LTE TDD: Max 130Mbps (DL)/Max 30Mbps (UL)
	GPRS/ Edge	EDGE: Max 296Kbps (DL)/Max 236.8Kbps (UL) GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL)
Interfaces	RS485	RS-485 ( for communication with multiple Modbus slaves)
	Digital Input	2 x Channel (24V Max)
	Analog Input	2 x Channel (0 to 24V) Voltage Level
	Analog Input	1 x Channel 4 to 20 mA Input
	Digital Output	1 x Relay OUT (5A Rating) - NO/COM
	LED Indicator	Power, GSM, Modbus Communication Status
	USB Port	Micro USB - PC Utility for Device Configuration
Communication	Transmit Protocol	Configurable TCP,HTTP, HTTPS, MQTT - SSL
	Protocol Format	Configurable JSON / CSV String Format
	Device Configuration	SMS / PC Utility / FTP / Server IP Commands
	Baud Rate	Supports 2400,4800,9600,19200,38400,57600,115200
Power	Operating Voltage	12VDC to 24VDC (Reverse Polarity Protection)
	Power Consumption	33 mA at 12VDC (0.4W – Idle) , (~1W – Transmission)
Mechanical	Casing	Plastic Casing
	Dimensions (W x L x H)	110 cm*90 cm*40 cm
	Weight	200 gms
Environmental	Operating Temperature	-25 C +85 degree Celsius ( Industrial)
	Ambient Relative Humidity	5 ~ 95% RH, non-condensing
Certification	CE	SIEMIC CE2200