

# ***Cellularm***<sup>®</sup>

## ***Owner's Manual***



## 1. General Description

CELLULARM is a 4G LTE-to-Analog Converter that allows you to connect standard analog telephones or alarm dialers to the LTE cellular network using an RJ-11 interface. It functions just like a traditional landline (PSTN), enabling you to make and receive calls over a cellular connection.

This unit is the next-generation equivalent of other GSM-based converters, but with the reliability, speed, and broader coverage of modern LTE networks. Whether for residential, commercial, or industrial use, CELLULARM offers a robust and wireless alternative to traditional copper phone lines—ideal for areas where landlines are unavailable or unreliable.

## 2. Features and Functions


- Simple Installation – Quick setup with no complex configuration required.
- Reliable Performance – Built with an industrial-grade LTE module and rugged housing.
- Alarm System Integration – Connects easily to most alarm dialers for wireless event reporting.
- High-Gain Antennas – Enhanced signal strength and stable voice quality.
- SIM Compatibility – Supports both 1.8V and 3V Mini-SIM (2FF) cards.
- Carrier Support – Compatible with AT&T, T-Mobile, and U.S. Cellular.
- DTMF Second Dialing – Supports dual-tone multi-frequency second dialing for enhanced use.
- Wide Voltage Support – Operates between DC 10–20V with low power consumption.
- Battery Backup – Built-in 1000mAh Li-ion battery (up to 24 hrs standby, 2.5 hrs talk).

2.

- Durability – Rugged galvanized steel housing suitable for harsh environments.

### 3. Panel Overview

#### Front Panel:

- **LED indicators for:**
    - Signal Strength
    - Power
    - Working Status
    - Talking Indicator
-  *Battery LED blinks while charging*

#### Rear Panel:

- (1) SMA antenna connector
- (2) RJ-11 phone ports
- Power input port
- Power switch

#### Bottom Panel:

- (1) SIM card slot (2FF Mini-SIM)

### 4. Package Contents:

1. CELLULARM Unit
2. 12V DC Power Adapter
3. LTE Antenna (Rubber Ducky style with SMA connector)
4. RJ-11 Phone Cord

## 5. Antenna Placement Guidelines:


To ensure stronger signal and clear voice quality:

- Do not mount the antenna directly on the device.
- Place the antenna at least 1.5 meters (5 feet) away from the terminal.
- Ideally, mount it near a window or in an elevated location with minimal obstructions.
- Use an extension cable if necessary to reach a better reception area.

## 6. Installation Instructions:

Follow these steps to install and power up your CELLULARM device:

1. **Insert SIM Card**  
Insert a 2FF Mini-SIM into the SIM card slot located on the bottom of the unit.
2. **Attach Antenna**  
Connect the included LTE antenna to the SMA port on the rear. Ensure proper placement as described above.
3. **Connect Analog Device**  
Use an RJ-11 phone cord to connect your analog telephone, PBX system, or alarm dialer to one of the two phone ports.
4. **Power the Unit**  
Plug the 12V DC power adapter into the power port and then into a 120V AC outlet.

 *Note: LTE signal strength directly affects voice call quality. Proper antenna placement is essential.*

## 7. Technical Specifications

<b>Max powder consumption:</b>	0.25W / 0.5W	<b>Antenna amplifying:</b>	>2.5db
<b>Standby:</b>	Less than 25mA	<b>Input power:</b>	DC 10V - 20V
<b>Transmission:</b>	Less than 400mAh	<b>Dimensions (average):</b>	170 x 118 x 30mm (L x W x H)
<b>Sensitivity:</b>	-105dB	<b>Weight:</b>	1.6 lbs
<b>Dial tone frequency:</b>	450MHz (standard)	<b>Connection mode:</b>	RJ-11 phone sockets
<b>Hanging Voltage:</b>	45V	<b>Antenna connection:</b>	SMA female
<b>Picking current:</b>	30mA/41mA	<b>Battery backup:</b>	Primary; Li-ion 1000mAh. Up to (40hrs standby) (2.5 hrs. Transmitting) External Secondary:
<b>Operation temperature:</b>	-10°C ~ +60°C	<b>Material:</b>	Galvanize steel
<b>Operation humidity:</b>	45% ~ 95%	<b>Power Supply:</b>	Mean Well GST25A12-P1J
<b>Atmosphere pressure:</b>	86 ~ 106KPa	<b>4G LTE</b>	B2/B4/B5/B12/B13/B14/ B66/B71
<b>Environment noise:</b>	<60dB	<b>Certifications</b>	FCC identifier: 2ALP-8848 FCC and Rule Parts 24E, 27
<b>Certifications</b>	FCC identifier: 2ALP-8848 FCC and Rule Parts 24E, 27		

## 8. Contact Information


RACO Headquarters  
727 Allston Way, Suite B  
Berkeley, CA 94710

### Sales Inquiries

 800-722-6999

 [sales@racoman.com](mailto:sales@racoman.com)

### Technical Support

 800-449-4539

 [support@racoman.com](mailto:support@racoman.com)