

# Sierra Wireless AirLink RV55 Rugged LTE-A Pro Router

SKU: M2M-SW-00008

MPN: RV55-1104332

## Description

The AirLink® RV55 is the industry's most rugged, compact, LTE-Advanced Pro router. Simple to install, and easy to manage, the RV55 router is designed for connecting critical remote assets, infrastructure, and vehicle fleets.

The RV55 is especially well suited for applications in energy, utilities, smart city and public safety. The RV55 provides real-time remote connectivity for SCADA, distribution management systems and metering.

The RV55 high-performance LTE-Advanced Pro connectivity and GNSS and location-based applications and dual connectivity for vehicle fleets and mobile workforce. An LTE-M/NB-IoT variant is perfectly suited for hard to reach conditions.

The RV55 supports an extensive range of LTE bands worldwide, and its LTE-Advanced Pro capabilities deliver up to 600 Mb/s downlink speeds. The RV55 also supports new unlicensed LTE bands (eg. CBRS) to support dedicated Private LTE service.

- LTE-Advanced Pro with minimal power consumption
  - less than 1 Watt
- Ideal for solar-powered applications
- Ruggedized, industrial grade form factor
- Supports most global 4G frequency bands
- IP64 ingress protection rating



## Sierra Wireless (Semtech)



Sierra Wireless (rebranding as Semtech) is a leading IoT solutions provider that combines devices, network services and software to unlock value in the connected economy. Sierra Wireless was acquired by Semtech Corporation in January 2023. With an almost 30 year history of innovation in the wireless space, we have been first to market with many technology solutions for global customers.

Our ...

# Network Interfaces

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# Wireless Interfaces

## Cellular Module

|               |                 |                 |                    |
|---------------|-----------------|-----------------|--------------------|
| Technologies: | 3G UMTS, 4G LTE | Chipset/Module: | Snapdragon X12 LTE |
|---------------|-----------------|-----------------|--------------------|

### 4G LTE Specifications



|            |          |                      |        |
|------------|----------|----------------------|--------|
| MIMO:      | 2x2 MIMO | DL Category:         | Cat 12 |
| LTE Bands: | B1       | UL Category:         | Cat 13 |
| B2         | ,        | Carrier Aggregation: | 3C CA  |
| ,          |          |                      |        |
| B3         |          |                      |        |
| ,          |          |                      |        |
| B4         |          |                      |        |
| ,          |          |                      |        |
| B5         |          |                      |        |
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| B7         |          |                      |        |
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| B8         |          |                      |        |
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| B9         |          |                      |        |
| ,          |          |                      |        |
| B12        |          |                      |        |
| ,          |          |                      |        |
| B13        |          |                      |        |
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| B18        |          |                      |        |
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| B19        |          |                      |        |
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| B20        |          |                      |        |
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| B26        |          |                      |        |
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| B28        |          |                      |        |
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| B29        |          |                      |        |
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| B30        |          |                      |        |
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| B32        |          |                      |        |
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| B41        |          |                      |        |
| ,          |          |                      |        |
| B42        |          |                      |        |
| ,          |          |                      |        |
| B43        |          |                      |        |
| ,          |          |                      |        |
| B46        |          |                      |        |
| ,          |          |                      |        |
| B48        |          |                      |        |
| ,          |          |                      |        |
| B66        |          |                      |        |

### SIM Cards

| Quantity | SIM Type           |
|----------|--------------------|
| 2        | Standard SIM (2FF) |

### Modem RF Connectors

| RF Connector Function | Quantity | RF Interface |
|-----------------------|----------|--------------|
| Cellular              | 2        | SMA Female   |

### GNSS Module

Technologies: GLONASS, GPS

### Device RF Interface

| RF Connector Function | Quantity | RF Interface |
|-----------------------|----------|--------------|
| GNSS                  | 1        | SMA Female   |

### Ethernet Interfaces

| Interface   | Quantity | Function | Signalling            |
|-------------|----------|----------|-----------------------|
| RJ45 Copper | 1        | LAN      | 100BASE-T, 1000BASE-T |

## Physical Specification

|                             |                |                            |                                  |
|-----------------------------|----------------|----------------------------|----------------------------------|
| Subtype:                    | Cellular Modem | Dimensions:                | 119 × 102 × 33 mm                |
| Min. Operating Temperature: | -40 °C         | Weight:                    | 320 g                            |
| Max. Operating Temperature: | 70 °C          | Mechanical Compliance:     | IEC 60068-2-27: Mechanical Shock |
| Ingress Protection:         | IP64           | Compliance/Certifications: | CE<br>,<br>RCM<br>,<br>RoHS      |

## IO Interfaces

| IO Connector    | Quantity | Notes  |
|-----------------|----------|--------|
| DE-9 Serial     | 1        | RS-232 |
| USB Micro-B 2.0 | 1        |        |

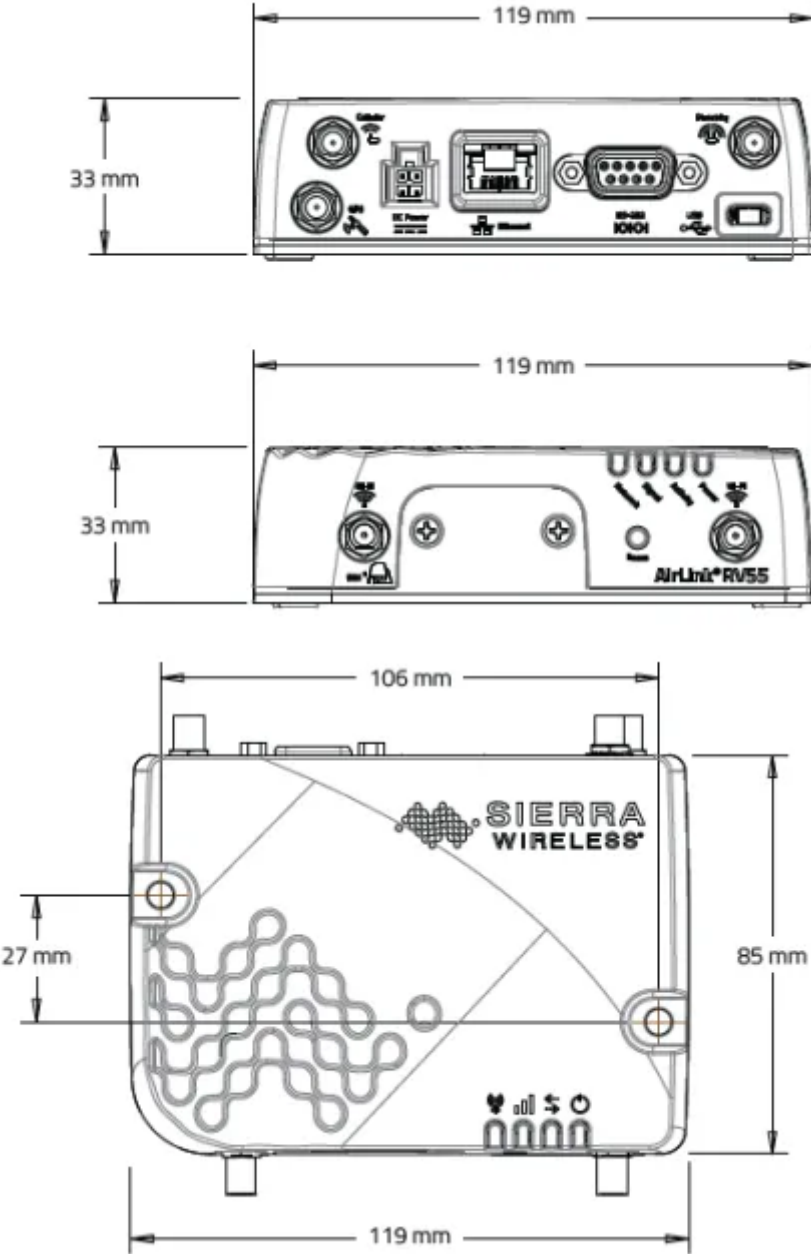
## Power Specifications

|                |                |                      |       |
|----------------|----------------|----------------------|-------|
| Power Options: | DC Power Input | Typical Consumption: | 0.9 W |
|----------------|----------------|----------------------|-------|

## Power Interface

| Power Connector               | Nominal Voltage | Min. Input Voltage | Max. Input Voltage | Voltage Type |
|-------------------------------|-----------------|--------------------|--------------------|--------------|
| Molex, 4-Pin Square Micro-Fit | 12 V            | 7 V                | 36 V               | DC           |

Drawing





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