Overview:
The Fortress 4W eNodeB (RN2404) is a member of the Fortress LTE family of high performance Evolved Node B (eNodeB) base stations. The 4W eNodeB is a Size, Weight and Power (SWaP) optimized, LTE base station that houses digital baseband and Radio Frequency (RF) circuits in a compact, environmentally hardened enclosure. The small size of the RN2404 reduces deployment and setup time, making it ideal for vehicle and man-portable mast mount integration, and the optimum choice for public safety, tactical cellular and private network deployments worldwide.

What Sets Us Apart:

**Compact Design** – The RN2404 eNodeB combines digital baseband processing and radio circuits into a compact rugged, water and dust resistant enclosure. The Size Weight and Power (SWaP) optimized design and high performance enable the RN2404 to meet operational requirements using the minimal amount of eNodeB’s, reducing system size, setup time and cost.

**High Performance** – The combination of the high performance and compact size of the RN2404 allow it to meet any operational requirement using the minimal amount of eNodeBs. This optimization minimizes the system size, reduces deployment and setup time and saves cost.

**Standards Compliant** – The RN2404 eNodeB complies with the global 3GPP LTE standards to ensure interoperability with 3GPP compliant User Equipment over the LTE air interface protocols. The RN2404 implements the standard S1 interface to the Mobility Management Entity and Serving Gateway in a 3GPP Evolved Packet Core.

**Frequency Agile** – The RN2404 eNodeB supports quad-band and the operating frequency can be quickly changed via software control from management system.

**Interference Mitigation** - The RN2404 eNodeB implements sophisticated real-time algorithm to detect and avoid external interference. This agility allows the RN2404 to coexist with other systems or to respond to deliberate interference or jamming attempts.

Why Choose Fortress Wireless Solutions

General Dynamics Mission Systems’ Fortress® Wireless solutions deliver rapidly deployable tactical LTE and Wi-Fi solutions that enable high-speed access to vital information including real-time video, voice and data using any 3GPP compliant LTE enabled device. As an Original Equipment Manufacturer (OEM), we are uniquely positioned to meet the requirements of the tactical market. Our industry-leading Mesh and 4G LTE products are Size, Weight, Power and Cost (SWaP-C) optimized, rugged, frequency agile, support distributed network environments and are waveform and cyber hardened. Our Fortress LTE and Wi-Fi Mesh systems are currently in service with military, public safety and industrial users around the world.
## Specifications

- **RF power output**
  - +36dBm (4W) total
  - (+33dBm (2W) per antenna port)
- **Antenna connector type**
  - 4x antenna connectors — 2Tx, 4Rx, 50-ohm N-type
- **Operating frequency**
  - Variant 1: B7, B20, B28/B68, B40 (EMEA/APAC variant)
  - Variant 2: B4, B7, B12, B14, B17 (NA variant)
  - Additional customer specific band combinations available
- **Bandwidth**
  - 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
- **3GPP compliance**
  - 3GPP release 10 (software upgradeable)
- **Duplex method**
  - TDD/FDD (band configuration dependent)
- **Number of users**
  - 256 concurrently connected sessions
- **Maximum throughput**
  - DL 140Mbits/s, UL 51Mbits/s
- **Backhaul interface**
  - 1 x Gigabit Ethernet
- **LMT interface**
  - Serial port connection
- **Power consumption**
  - 120W (max)
- **Dimension**
  - 355mm x 300mm x 110mm (14” x 12” x 4.3”)
- **Weight**
  - 9.5 kg (21 lbs)
- **Voltage**
  - +28VDC nominal (operating range +12VDC to +36VDC) MIL-STD-127D certified
- **Operating temperature**
  - -40° to +55° C (-40° to 131° F)

## Ruggedization

- Designed to MIL-STD-810G
- Vibration: MIL-STD-810G METHOD 514.6
  - Section: 2.1
  - “Category 4 - Truck/Trailer - Secured Cargo”
  - Section: 2.9
  - “Category 20 - Ground Vehicles - Ground Mobile”
- Shock: MIL-STD-810G METHOD 516.6
  - Section: 4.6.5
  - “Shock - Transmit Drop Method 516.6 Procedure IV”
- Water and dust proof
  - IP65 (IEC529) and NEMA 4X
- Safety
  - EN60950

## Model Number

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