AXYOM.CORE

5GNR & LTE Enterprise Femtos

Data Sheet

Next Generation Wireless for the Masses

Next generation wireless networks shouldn't be reserved only for large spaces like airports and stadiums. With approximately 90% of commercial buildings in the US being under 31K square feet, Enterprise Femtos are a bridge to the masses, providing high security, data ownership, and guaranteed performance.

Delivering high performance with minimal power consumption and smooth integration with existing Radio Access Networks (RAN), Axyom.Core's **5GNR & LTE Enterprise Femtos** are ideally suited for network densification while also supporting 5G, VoNR, VoLTE, IoT and QoS based services. The 5GNR & LTE Enterprise Femtos specializes in solving the challenges faced by dense business environments that have struggled to provide high quality and reliable bandwidth access in the past.

The **5GNR & LTE Enterprise Femtos** provides small to medium enterprises with in-building 5G and LTE coverage and service at locations where macro coverage is poor or where macro coverage cannot penetrate the building materials. Each unit provides up to 31,000 square feet of coverage, depending on the exact location and placement of the unit. Multiple units can be deployed at locations that need larger coverage. These units integrate seamlessly with both the macro network and the existing femtocell overlay network.

The **5GNR & LTE Enterprise Femtos** ensures that employees and end-users alike can utilize the network to conduct their important business activities. Sharing large files, conducting video conferences, sending email, and collaborating with others around the world has never been easier thanks to the 5GNR & LTE Enterprise Femtos.

KEY FEATURES

FEATURES

- High performance 3GPP LTE Protocol Stack
- Up to 64 LTE +64 NR concurrent users
- 1 5G NR + 1 LTE carrier
- Self-configuration
- Advanced 5GNR & LTE scheduler
- Power over Ethernet (PoE) option

BIG PERFORMANCE IN SMALL SPACES
Covering up to 31K square feet, 64 LTE + 64 NR concurrent users and 800 Mbps throughput, the 5GNR & LTE Enterprise Femtos is an ideal fit for small to medium sized businesses.

PLUG AND PLAY CAPABILITY
Simply plug into any available data connection on site, perfect for creating a localized private network. Easy installation, including simple mounting procedure, easy to use GUI, and PoE support.

ADVANCED SECURITY
Physical and Software Based security. Create closed subscriber groups, use over non-public internet connections and ensure continuity with anti-tampering hardware. Ideal for hospital, government or financial institution use.

ROBUST SOLUTION
Extended temperature range to ensure peak performance in even the harshest environments.

TECHNICAL SPECIFICATIONS

ANTENNA AND BACKHAUL
Transmit Power: 27dBm (5G), 21dBm (4G) per transmit port
Antenna: Antenna: 2×2 MIMO, 4 internal or external Antenna
Highest Modulation: DL (256 QAM) / UL (64 QAM)
Backhaul: 2.5/1 GigE RJ-45

PHYSICAL AND ENVIRONMENTAL
Dimensions: 10" x 10.3" x 3.3" (255 x 263 x 84 mm)
Weight: 6.8lbs/3.1Kg
Durability: IP 50 rated

BANDS AND PERFORMANCE
Frequency Bands: LTE, LTE single carrier(B13/4/66), 5G N77 (5G N48 CBRS)
Download / Upload Speed: Up to 800 Mbps download (256 QAM) / Up to 100 Mbps upload (64 QAM)
Simultaneous Users: up to 64 LTE + 64 NR

SECURITY
Protocol: IPSEC: AES, 3DES
Key Management: PKI: IKEv2 key management, certificate based authentication with secure boot