

Emerald Cellular Product Range (4G/LTE)

MiFi 4G-CPE - Advanced LTE 4G/LTE CPE

Overview

Bands 42 & 43 - Category 4



About Wireless Excellence

Founded in 1996 and with headquarters in Oxford UK, Wireless Excellence Limited is a leading designer and supplier of outdoor and indoor Broadband Wireless communication products.

With a complete range of Wireless solutions including Radio, Microwave, Millimeter-Wave, 4G/5G/LTE, Free Space Optics and Carrier WiFi, customers in over 80 countries have chosen CableFree as the "one stop shop" brand of choice for dependable wireless networking.

About 4G/LTE Solutions

Using the latest Software Defined Radio and RF technology, our cellular 4G/LTE solutions operate in all the common cellular bands from 380MHz-4400MHz, including Base Station and CPE devices for high performance mission-critical applications.

Our advanced Cellular CPE platform with IP/Ethernet interfaces also supports VOIP with analogue RJ11 connections to ensure simplicity of installation. Flexibility, performance and low cost of ownership are ensured.

Advanced 4G/LTE CPE solution (Cat4)

Wireless Excellence offers high performance 4G/LTE CPE solutions for a wide variety of applications. Covering all common 4G/LTE bands of the base stations which enables great flexibility of operation and future upgrade path.

4G/LTE networks using CableFree Emerald CPEs enjoys great flexibility, high performance as well as very low cost of operation and ownership. "Stand Alone" operation is possible which enables the 4G Base station to connect remote terminals without need for external network elements.. This is ideal for closed network type applications such as CCTV, campus sites and disaster recovery scenarios, where there is no centralised infrastructure or Network Operations Centre.

System Features

- Compact, 4G/LTE CPE solution
- Category 4 compliant
- Spectrally Efficient, Software-Defined Radio
- "Stand Alone" mode capable
- The Emerald Platform supports band 42/43 TDD LTE and supports MIMO 2x2 natively

Applications

- Telecom Service Providers & ISPs
- Point-to-Multipoint Point Wireless networking
- CCTV connection for multiple cameras
- Oil & Gas Utilities
- Fast Roll-out & Temporary Deployment

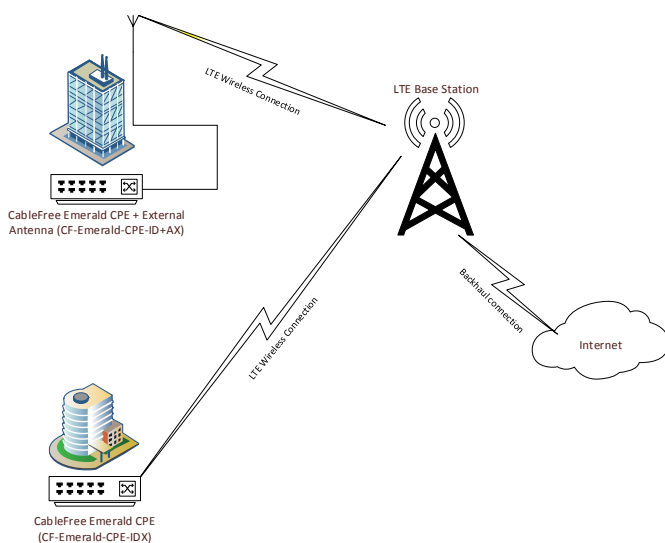
Enhanced Performance, Flexibility & Features

The CableFree Emerald MIFI CPE is available as a TDD or FDD version, depending on the desired frequency and service. Each comes equipped with a built in 2.4GHz AP, supporting 802.11a/b/g/n. Allowing up to 10 users to share a single connection, maximising access and efficiency. The smart sleek design incorporates a 3.8V Li-ion 2000mAh battery providing access for 8-10 hours between charges.

Key Features:

- Fully portable including power (removable battery)
- Full TDD & FDD Support
- Can be adapted via modules to LTE support in several different frequency bands
- Support for up to 10 concurrent connection via AP
- Simple, elegant and suitable for multiple locations

Schematic of options:



CableFree Emerald LTE MiFi CPE



CableFree Emerald LTE MiFi CPE Side views

Specifications:

| System Variant | CF-Emerald-MiFi-B4243-CPE-C4-X |
|--------------------------------|---|
| System Parameters | |
| Max. Nb Carriers per TX/RX LTE | 1 (1.4,3,5,10,20MHz) TDD |
| Supported Bands | Full Support of LTE Band 42; 43 or both |
| SIM Card | Support for 1.8V/3.3V USIM cards |
| WiFi AP (integrated) | Built in, 802.11 b/g/n WiFi Access Point, 2.4GHz up to 10 Connections |
| Indicators | Colour LCD Screen 1.44" |
| Interfaces | Wireless |
| Key Input | Reset/Power |
| Memory | Support for Micro-SD up to 32GB |
| Power Supply | 3.8V Li-ion Battery 2000mAh (removable) |
| Battery Life | Up to 10 Hours continuous use |
| Charge | 5V DC, 1A |
| Operating Temperature | -10°C to +45°C |
| Weight | 99g |
| Dimensions | 95.0 x 59.0 x 13.5 mm |
| Regulatory | |
| LTE Compliancy | ETSI TS 136 104 cat B Opt2 |
| Electrical safety | UL 60950 - Ed.3 2000, EN 60950 Ed.2001, CSA C22.2 No 60950 |
| Environmental Conditions | ETSI EN 300 019-1, ETSI EN 300 019-1, ETSI EN 300 019-3, IP67 |

Product codes

| Product Code | Description |
|------------------------------|--|
| CF-Emerald-MiFi-B4243-CPE-C4 | Emerald LTE MiFi Band 42/43 CPE, with battery and local AP |

Note – precise product code depends on frequency, band, antennas, resilience and other options. Please contact Wireless Excellence for more information

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