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EION BYTES

The official solution update of EION Wireless

EION Increases LTE Sector Capacity

LTE-U Dual Carrier ENodeB in 5GHz Band (B46)

The *NEW* technique to increase the sector capacity and reduce the tower rental space is by encapsulating dual 5 GHz radio carriers into a single unit, to deliver double capacity over a 90 degree sector. Each carrier uses a separate beamforming antenna that operates on the same or different 5 GHz sub-band. This technique helps in the use of two narrow channels for minimal radio interference, rather than using a single noisy wide channel. A built-in GPS receiver will help for TDD synchronization between the two carriers, reducing downlink radio interference.

WHAT'S INSIDE THIS ISSUE?

EION
LTE-U Dual Carrier ENodeB in 5GHz Band (B46)

- Dual carrier aggregation (F1 & F2)
- Unlicensed spectrum of 5 GHz
- Built-in GPS receiver TDD Sync
- Second-generation beamforming antenna

EION
MobiLink 2000
LTE-U Dual Carrier ENodeB in 5GHz Band (B46)

More details

Main features:

- 3GPP LTE-Advanced Release 10/12
- Supports FWA, high mobility, rural, urban and semi-rural
- Supported Bands: B42/43/46/B48
- Supported Channels: 5/10/15/20 MHz
- Up to 30 dBm Maximum transmit power per antenna port
- 4Tx 4Rx Radio Configuration; Multi-User MIMO
- 200 Mbps per sector; supports up to 20+20 MHz
- Interfaces: 1 x Gigabit RJ45 Ethernet Port, 1 x Optical SFP port, 1 x 100M RJ45
- Interoperable with standalone EPC, MobiEPC 2000 or Option Integrated EPC
- GigE interface for connection to Gigabit TeraLink Backhaul radios
- Ruggedized outdoor enclosure, IP67
- Spectrum Analyzer; DCS (for unlicensed bands)