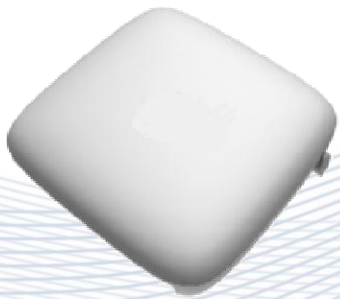# sCELL-F4240-ID

LTE Enterprise Femtocell

2 x 2 MIMO

2 x2x 250mw

2*64 Concurrent Users

2*192 RRC Connected Users

The F4240 is CBRS dual carrier LTE small cells targeted at indoor enterprise environments. The units can be installed by both end-users in "Plug-and-Play" mode and technicians in planned deployment. With 2*2*250mW output power of each cell and high-performance such as carrier aggregation, the F4240 can help mobile operators improve coverage and capacity with minimum cost.

KEY FEATURES

- Standard LTE bands: TDD bands 42/43/48
- Peak data rate of each cell (20MHz)
    - -DL 130Mbps (256QAM,SF2)
    - -UL 30Mbps (64QAM,SF1)
- Peak data rate of carrier aggregation(20MHz)
    - -DL 260Mbps (256QAM,SF2)
    - -UL 60Mbps (64QAM,SF1)
- Maximum 2*64 VoLTE users, 2*64 RRC active users and 2*192 RRC connected users
- All IP based backhaul, many IP backhaul methods can be used, including RJ45 Ethernet, SFP
- Plug-and-play with SON features, including self-configuration, self-optimization, self-healing
- Local Web GUI management, network management with HeNB management server
- Compact and beautiful design, supplied with high performance integrated antennas.
- PoE supported. Lower power consumption to reduce OPEX.

APPEARANCE

HARDWARE SPECIFICATIONS

Chipset	Qualcomm: FSM9955 + 2*FTR8950
LTE Mode	TDD
Frequency Bands	TDD: 42/43/48
Channel Bandwidth	5/10/15/20 MHz
Characteristic Impedance	50Ω
Number of RF Ports	6 RF (4*ANT, SNF, GPS)
Max Output Power	24 dBm / antenna
Transmitter Performance	36.141, Home BS compliance
Receiver Performance	36.141, Home BS compliance
Synchronization	GPS, IEEE 1588v2 PTP, Network Listening
Backhaul	- 1 RJ45 Ethernet (10/100/1000 Auto-negotiating) - SFP

Power Supply	- 90 ~ 254V AC to 12V DC - PoE+ (IEEE 802.3at standard)
Dimensions (H*W*D)	220*220*40 mm | 8.67*8.67*1.57 in
Weight	< 1kg
Power Consumption (W)	< 20W
Antenna	-Internal: 3 dBi <120^0 -External: 5 dBi omni antenna
Installation	Desktop, Ceiling or Wall mounted
Material	Top:plastic Bottom:cast-aluminium

SOFTWARE SPECIFICATIONS	
LTE Standard	3GPP Release 12
Peak Data Rate (20MHz BW) of each cell	- DL 130Mbps (256QAM,SF2) - UL 30Mbps (64QAM,SF1)
Peak Data Rate (20MHz BW) of carrier aggregation	- DL 260Mbps (256QAM,SF2) - UL 60Mbps (64QAM,SF1)
Modulation	- DL:QPSK,16QAM,64QAM,256QAM - UL: QPSK,16QAM,64QAM
Max User Number	2 * 64 VoLTE users 2 * 64 RRC active users 2 * 192 RRC connected users

SON Features	-Self-configuration:
	   Automatic Neighbor Relation (ANR)
	   Physical Cell Identity (PCI)
	   Auto-configuration
	   Radio Environment Management (REM)
	   S1/X2 auto configuration
	   RACH channel self-configuration
	   Channel Selection
	   Transmission Power Management
	-Self-optimization:
	   MRO, MLB, CCO, RACH organization
	-Self-healing:
	   Automatic cell outage detection
	   Software recovery

Maintenance	Online status monitoring and management Performance management, KPI recording Fault management, Alarm reporting Configuration management

	Local or remote software upgrade User information tracing
QoS	3GPP standard QCI
MTBF	≥ 150000 hours
MTTR	≤ 1 hour

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-5℃ ~ +45℃ |+23 °F ~ +113 °F
Storage Temperature	-45℃ ~ +70℃	+49°F ~ +158 °F
Operating Humidity	5% to 95%
Storage Humidity	5% to 95%
IP Rating	IP30
Housing Self-extinguishing Class	V-0
Shock when packaged	ETSI 300 019 1-2 (class 2.3) NEBS GR63
Shock unpackaged	Max Drop Height: 750mm in hard ground

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