

Node-H software provides a full solution for fast market entry for small cells. Node-H is among the most widely deployed small cell solutions with over 2 million cells deployed worldwide.



Node-H supplies Enterprise and Residential solutions for Dual-mode and Single-mode LTE and UMTS. This includes a full SON solution, security, zero-touch install and management.

Node-H software offers the best costperformance for small cells. Small cells have a big future — with Node-H software you can enter the market with confidence.

Factsheet



UMTS/LTE VOICE/VIDEO CALLS

UMTS Circuit switched Audio/Video calls – AMR, WB-AMR, Emergency

calls

CSFB Circuit switched fallback to UMTS
VoLTE, ViLTE Voice over LTE, Video over LTE

UMTS/LTE DATA SERVICES

Short Messages MT/MO on UMTS and LTE

UMTS Packet Data Release 99 to 384 kbps, HSPA+ 21M / 5.7 M

LTE Active Users 32/64 for Enterprise
LTE Data Rates 150 Mbps/50Mbps

Bandwidth UMTS 5MHz, LTE 3, 5, 10, 15, 20MHz

MOBILITY

Femto to Macro Intra-RAT LTE and UMTS handout, Inter-RAT

hand-out from UMTS and LTE to GSM, UMTS

Femto to Femto Intra-LTE handover, Intra-UMTS handover

Macro to Femto LTE and UMTS hand-in

FEATURE SUPPORT

NITZ Homezone information with Unicode support

CMAS Commercial Mobile Alert System

PWS Public Warning System

Access Control Open, Prioritized or Closed Access.

Closed Subscriber Group (CSG).

Synchronization LTE, UMTS, GSM and NTP/PTP/GPS

Location locking Radio Environment Measurement of LTE, UMTS

and GSM cell IDs, IP address available for

location lock.

Manufacturing Assistance to enter volume production

HARDWARE

Bands Software supports all bands

Chipset Broadcom 61765

Cell radius Free space radius around 500m

OPERATIONS AND MAINTENANCE

EMS Enterprise Management System

TR-069 Partner provided solution from AVSystem

TR-196v2 Full data model support including:

Automatic parameter selection
Performance metrics, Error reporting
Complete dual-bank software update

INTERFACES

Network UMTS – Iuh or Iuh-flex

LTE - S1 or S1-Flex, X2 for Enterprise/Outdoor

(per IOT)

Air UMTS and LTE Uu Air Interface

OOS

Uplink DSCP marking, traffic shaping

Downlink Scheduling by traffic priority, Dynamic RAB

management

UMTS SON/RRM

SON Automatic parameter selection

Radio parameter auto-configuration

Power control

RRM Congestion control and recovery, directed re-try

Channel-type switching to FACH and PCH
Dynamic RAB- and code-management
Admission control with service pre-emption
Uplink and downlink interference mitigation

LTE SON/RRM

SON S1 automatic discovery and configuration

Automatic Neighbour Relations

Automatic PCI selection

Automatic power settings configuration

Mobility Robustness Optimization

Mobility Load Balancing

RRM Dynamic bearer admission, rejection,

redirection and reallocation

Delay-, QOS- and interference-aware packet

scheduler

Reactive Inter-cell Interference Coordination

(ICIC)

SECURITY

IPSEC security Hardware acceleration, IKE v2 key management,

AES, certificate-based security

Uu interface Ciphering, Signaling integrity checking

Secure boot Trusted platform secure start-up

Features and Specifications are subject to change.



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