

Numerical acronyms

1G First generation of wireless communications systems

2G Second generation of wireless communications systems

3G Third generation of wireless communications systems

4G Fourth generation of wireless communications systems

2D Two dimensional

3D Three dimensional

1xEV-DO Cellular Technology - Evolution Data-Only -or- Evolution Data-Optimized

A

A/D Analog-to-digital

AC Alternating current

ACAD AutoCAD

ACPR Adjacent - channel power ratio

ADC Analog- to-digital converter

AMPS Advanced mobile phone system, the first generation of cellular service in North America

ASP Application service provider

AWS Cellular Technology - Advanced Wireless Services

ATM Asynchronous transfer mode

B

BER Bit error rate

BPSK Binary phase shift keying

BSC Base Station Controller; the network entity controlling a number of Base Transceiver Stations

BSS Base Station System / Subsystem

BTS Base Transceiver Station; the network entity which communicates with the mobile station

C

C/I Carrier-to-Interference ratio

CAD Computer Aided Design

CDMA Code Division Multiple Access

CENELEC European Committee for Electrotechnical Standardization

C/(N+I) Carrier-to-Noise plus Interference

COST 231 Collaboration in Science and Technology, project 231

CP Circularly polarized

CPICH Common Pilot Channel

CW Continuous wave

D

DAS Distributed Antenna System

dB Decibel

dBd Decibel referenced to dipole antenna

dBi Decibel referenced to isotropic antenna

dBm Decibel power relative to 1 milliwatt

dBW Decibel power relative to 1 watt

DPM Dominant Path Model

E

EIRP Effective Isotropic Radiated Power

EM Electromagnetic

EMC Electromagnetic compatibility

F

FNBW First-null beamwidth

FSL Free Space Loss

G

GHz Gigahertz

GPRS Global Packet Radio Service

GPS Global Positioning System
GSM Global System for Mobile

H

HPBW Half-power beamwidth
HSPA High Speed Packet Access
HSDPA High Speed Downlink Packet Access
HSUPA High Speed Uplink Packet Access
H&S Health and Safety

I

ICNIRP International Committee on Non-ionizing Radiation Protection
IEEE Institute of Electrical and Electronics Engineers

J

K

KPI Key Performance Indicators

L

LAN Local area network
LHCP Left-hand circularly polarized
LMR Land Mobile Radio
LTE Long Term Evolution
LOS Line of sight

M

MAPL Maximum acceptable path loss
MCP Measurement Campaign Plan
MHz Megahertz
MIMO Multiple-input and multiple-output
MWM Multi-wall-model

N

NLOS Non line of sight

O

OFDMA Orthogonal Frequency Division Multiple Access

OFDM Orthogonal Frequency Division Multiplexing

OLOS Obstructed line of sight

P

PAN Personal Area Networks

PEL Plane Earth Loss

PSK Phase Shift Keying

PCS Personal Communications Service

Q

QAM Quadrature Amplitude Modulation

QPSK Quadrature Phase Shift Keying

QoS Quality of Service

R

RF Radio Frequency

RHCP Right-hand circularly polarized

ROI Return on Investment

RSL Receive Signal Level

RX Receive

S

SAR Specific absorption rates

SINR Signal to interference plus noise ration

SISO Single-input/Single-output

SM Spatial Multiplexing

SNR Signal to Noise Ratio

SOM System Operating Margin
SQE Signal Quality Estimator

I

TDD Time division duplexing
TDM Time division multiplexing
TDMA Time division multiple access
TV Television
TX Transmit out

U

UHF Ultra high frequency
UMTS Universal Mobile Telecommunications System
UWB Ultra Wide Band

V

VHF Very high frequency
VSWR Voltage Standing Wave Ratio

W

WCDMA Wideband Code Division Multiple Access
Wi-Fi Wireless Fidelity
WLAN Wireless local area network

X, Y, Z

XPD cross-polar discrimination