

W-CDMA/HSPA Applications Feature Comparison

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NETWORK BEHAVIORS	E1963A	E6703A	E6703B	E6703C	E6703D	E6703E/U	E6703F*	E6703T
12.2k AMR RAB	yes	yes	yes	yes	yes	yes	yes	yes
128k UL/384k DL PS Data	no	no	no	no	yes	yes	yes	yes
128k UL/HSDPA DL PS Data	no	no	no	no	no	yes	yes	yes
14.4 Mbps HSDPA RB Test Mode	Opt 405	no	no	no	no	no	yes	no
14.4k and 57.6k CS Data	no	no	yes	yes	yes	yes	yes	yes
384k UL/384k DL PS Data	no	no	no	no	no	yes	yes	yes
384k UL/HSDPA DL PS Data	no	no	no	no	no	yes	yes	yes
5.7 Mbps HSUPA RB Test Mode	Opt 413	no	no	no	no	yes	yes	no
64k PS Data	no	yes	yes	yes	yes	yes	yes	yes
64k UL/ HSDPA DL PS Data	no	no	no	no	yes	yes	yes	yes
64k UL/384k DL PS Data	no	no	yes	yes	yes	yes	yes	yes
64k UL/DL CS Data RAB	Opt 401	no	no	yes	yes	yes	yes	yes
7.2 Mbps HSDPA RB Test Mode	Opt 403	no	no	no	yes	yes	yes	yes
Access Point Name	no	no	no	yes	yes	yes	yes	yes
Additional UE timers	no	no	no	no	no	yes	yes	no
A-GPS control plane messaging	no	no	no	no	no	yes	yes	no
A-GPS UE Reset msg	no	no	no	no	no	no	yes	no
A-GPS SS pipe, message timestamping	no	no	no	no	no	no	yes	no
AMR codecs	Opt 408	no	no	no	no	yes	yes	no
AMR Voice Echo	yes	yes	yes	yes	yes	yes	yes	yes
AMR/AMR-WB multi-rate control	Opt 408	no	no	no	no	no	yes	no
Arbitrary channel code config	Opt 405	no	no	no	no	no	yes	no
Audio routing with GAN	no	no	no	no	no	no	yes	no
BCCH Update Page	yes	no	yes	yes	yes	yes	yes	yes
Calling Party Number	no	no	no	yes	yes	yes	yes	yes
Cell Broadcast SMS	Opt 409	no	no	yes	yes	yes	yes	yes
Cell Identity	yes	no	no	yes	yes	yes	yes	yes
RRC State Transitions with CELL_FACH	no	no	yes	yes	yes	yes	yes	yes
CELL_FACH,CELL_PCH,URA_PCH w/ PS data – HSPA and WCDMA	no	no	no	no	no	no	yes	no
Ciphering	no	no	no	no	no	no	yes	no
Compressed Mode HSDPA	no	no	no	no	no	yes	yes	no
Compressed Mode HSDPA (enhanced)	no	no	no	no	no	no	yes	no
Compressed Mode HSUPA	no	no	no	no	no	no	yes	no
Compressed Mode on 384k DL Chan	no	no	no	no	no	yes	yes	yes
Compressed Mode W-CDMA	no	no	yes	yes	yes	yes	yes	yes
Coupled DL/UL channels	yes	no	no	yes	yes	yes	yes	yes
CPICH RSCP enhanced reporting	yes	no	no	no	no	yes	yes	no
Extended relative level settings for HSUPA channels	no	no	no	no	no	no	yes	no

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Flexible Compressed Mode	no	no	no	no	yes	yes	yes	yes
HSDPA Active CQI Response	no	no	no	no	no	yes	yes	no
HSDPA FDD Test Mode	Opt 403	no	no	yes	yes	yes	yes	yes
HSDPA RB Test Mode	Opt 403	no	no	yes	yes	yes	yes	yes
HSPA UL/DL PS Data	no	no	no	no	no	yes	yes	no
HSPA+ RB Test Mode (H-set 8) – DL only	Opt 423	no	no	no	no	no	yes	no
HSUPA FDD Test Mode	Opt 413	no	no	no	no	yes	yes	no
HSUPA RB Test Mode	Opt 413	no	no	no	no	yes	yes	no
Idle Periods in Downlink (IPDL)	no	no	no	no	no	yes	yes	no
IMEISV display	yes	no	no	no	no	yes	yes	no
Independent H-RNTI settings	no	no	no	no	no	no	yes	no
Max UL Tx Power Level	yes	no	yes	yes	yes	yes	yes	yes
Measurement Power Offset	no	no	no	no	no	yes	yes	no
Network Identity and Timezone (NITZ)	no	no	no	no	no	yes	yes	no
Network Mode of Operation	yes	no	no	yes	yes	yes	yes	yes
PCR activation time	yes	no	no	yes	yes	yes	yes	yes
PDP Reject	no	no	no	yes	yes	yes	yes	yes
Real-Time Vocoder	Opt 408	no	no	no	no	yes	yes	no
RFC 4867 (3267) file format with DAI	no	no	no	no	no	no	yes	no
Robust Header Compression (RoHC)	no	no	no	no	no	no	yes	no
Routing Area Code (RAC)	yes	no	yes	yes	yes	yes	yes	yes
Security Auth and Int	yes	yes	yes	yes	yes	yes	yes	yes
Settable Speech Loopback Delay	yes	no	no	no	no	yes	yes	no
SIB 11	yes	no	yes	yes	yes	yes	yes	yes
SIB 15	no	no	no	no	no	yes	yes	no
Simult Svcs: 384k/64k PS+Voice	no	no	no	no	no	yes	yes	no
Simult Svcs: 64k/64k PS+Voice	no	no	no	no	no	yes	yes	no
Simult Svcs: HSDPA/384k PS+Voice	no	no	no	no	no	yes	yes	no
Simult Svcs: HSDPA/HSUPA PS+Voice	no	no	no	no	no	yes	yes	no
T3212 Loc Up Timer	no	no	no	yes	yes	yes	yes	yes
Variable AMR rates	Opt 408	no	no	yes	yes	yes	yes	yes
Wait for RLC Ack	yes	no	no	yes	yes	yes	yes	yes
WB-AMR codecs	Opt 408	no	no	no	no	yes	yes	no
W-CDMA Digital Audio Interface	Opt 408	no	no	no	no	yes	yes	no
W-CDMA FDD Test Mode	yes	yes	yes	yes	yes	yes	yes	yes
W-CDMA RB Test Mode	yes	yes	yes	yes	yes	yes	yes	yes

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1-box Video Loopback	Opt 402	no	no	no	no	yes	yes	no
3.6 Mbps HSDPA PS Data	no	no	no	no	no	yes	yes	yes
5.7 Mbps HSUPA/7.2 Mbps HSDPA PS Data	no	no	no	no	no	yes	yes	no
7.2 Mbps HSDPA PS Data	no	no	no	no	no	yes	yes	no
10 Mbps+ HSDPA PS Data	no	no	no	no	no	no	yes	no
HSPA+ IP data	no	no	no	no	no	no	yes	no
DNS Server IP Address	no	no	no	yes	yes	yes	yes	yes
DPCH Offset	yes	no	no	yes	yes	yes	yes	yes
DRX cycle length	yes	no	no	yes	yes	yes	yes	yes
End-to-end voice connection	no	no	no	no	no	yes	yes	no
HSDPA Packet-switched (PS) Data	no	no	no	no	yes	yes	yes	yes
HSDPA User Defined PS Data	no	no	no	no	no	yes	yes	no
MMS	no	no	no	yes	yes	yes	yes	yes
SMS	Opt 409	no	no	yes	yes	yes	yes	yes
UE-to-8960 LAN Video Call	no	no	no	no	yes	yes	yes	yes
UE-to-UE Video Call	Opt 401	no	no	yes	yes	yes	yes	yes
Video Loopback Throughput results	no	no	no	no	no	yes	yes	no
W-CDMA Packet-switched (PS) Data	no	yes	yes	yes	yes	yes	yes	yes

MEASUREMENTS	E1963A	E6703A	E6703B	E6703C	E6703D	E6703E/U	E6703F*	E6703T
12.2k RMC	yes	yes	yes	yes	yes	yes	yes	yes
144k RMC	yes	no	yes	yes	yes	yes	yes	yes
33k No Code	yes	no	yes	yes	yes	yes	yes	yes
384k RMC	yes	yes	yes	yes	yes	yes	yes	yes
64k RMC	yes	yes	yes	yes	yes	yes	yes	yes
ACLR HSDPA	Opt 403	no	no	yes	yes	yes	yes	yes
ACLR HSUPA	Opt 413	no	no	no	no	yes	yes	no
ACLR W-CDMA	yes	yes	yes	yes	yes	yes	yes	yes
Asym RMC LB Msg	yes	no	no	yes	yes	yes	yes	yes
Asymmetrical RMCs	yes	no	no	yes	yes	yes	yes	yes
BER Confidence Limits	yes	no	no	yes	yes	yes	yes	yes
BER W-CDMA	yes	yes	yes	yes	yes	yes	yes	yes
BLER Asymmetric RMCs (AM)	yes	no	no	yes	yes	yes	yes	yes
BLER W-CDMA	yes	no	yes	yes	yes	yes	yes	yes
Call Config Presets	yes	no	no	no	yes	yes	yes	yes
Change of TFC	no	no	no	yes	yes	yes	yes	yes
Channel power	yes	yes	yes	yes	yes	yes	yes	yes
Channel Power HSDPA	Opt 403	no	no	yes	yes	yes	yes	yes

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Channel Power HSUPA	Opt 413	no	no	no	no	yes	yes	no
Code Dom Pwr HSDPA	Opt 403	no	no	yes	yes	yes	yes	yes
Code Dom Pwr HSUPA	Opt 413	no	no	no	no	yes	yes	no
Code Domain Power	yes	yes	yes	yes	yes	yes	yes	yes
Dummy DCCH	yes	no	yes	yes	yes	yes	yes	yes
Dyn Pow Analysis HSDPA	Opt 403	no	no	yes	yes	yes	yes	yes
Dynamic Power Analysis	yes	no	yes	yes	yes	yes	yes	yes
Extended-Range Dyn Pwr	yes	no	no	no	yes	yes	yes	yes
Fast Device Tune	E1999A-202	no	no	yes	yes	yes	yes	yes
Frequency Stability	yes	no	no	yes	yes	yes	yes	yes
HSDPA BLER	Opt 403	no	no	yes	yes	yes	yes	yes
HSDPA FRCs+12.2k RMC	Opt 403	no	no	yes	yes	yes	yes	yes
HSPA (no 12.2k RMC)	Opt 413	no	no	no	no	yes	yes	no
HSUPA UL/DL+12.2k RMC	Opt 413	no	no	no	no	yes	yes	no
IQ Tuning HSDPA	Opt 403	no	no	yes	yes	yes	yes	yes
IQ tuning HSUPA	R2C-200810	no	no	no	no	no	yes	no
IQ Tuning W-CDMA	yes	yes	yes	yes	yes	yes	yes	yes
Occupied Bandwidth	yes	yes	yes	yes	yes	yes	yes	yes
Out of Sync signaling	no	no	no	yes	yes	yes	yes	yes
Phase Discontinuity HSDPA	Opt 403	no	no	no	yes	yes	yes	yes
Phase Discontinuity HSUPA	R2C-200810	no	no	no	no	no	yes	??
Phase Discontinuity W-CDMA	yes	no	yes	yes	yes	yes	yes	yes
PRACH Preamble Analysis	no	no	yes	yes	yes	yes	yes	yes
PRACH TX On/Off	yes	yes	yes	yes	yes	yes	yes	yes
PRBS20, PRBS23 data types	no	no	no	no	no	no	yes	no
QPSK EVM	no	no	no	no	no	no	yes	no
RBTM PCR LB Msg state	yes	no	no	yes	yes	yes	yes	yes
Reporting of CQI	no	no	no	no	no	yes	yes	no
Reporting of CQI Histogram	no	no	no	no	no	yes	yes	no
Serving Grants	Opt 413	no	no	no	no	yes	yes	no
Spec Em Mask HSDPA	Opt 403	no	no	yes	yes	yes	yes	yes
Spec Em Mask HSUPA	Opt 413	no	no	no	no	yes	yes	no
Spectrum Emission Mask	yes	yes	yes	yes	yes	yes	yes	yes
Thermal Power	yes	yes	yes	yes	yes	yes	yes	yes
Tx Dynamic Power	yes	no	no	yes	yes	yes	yes	yes
Type 1 loopback	yes	yes	yes	yes	yes	yes	yes	yes
Type 2 loopback	yes	no	yes	yes	yes	yes	yes	yes
UI access to TPC cmds	Opt 413	no	no	no	no	yes	yes	no
Waveform Quality HSDPA	Opt 403	no	no	yes	yes	yes	yes	yes
Waveform Quality HSUPA	R2C-200810	no	no	no	no	no	yes	??

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Waveform Quality W-CDMA	yes	yes	yes	yes	yes	yes	yes	yes
W-CDMA ILP	yes	yes	yes	yes	yes	yes	yes	yes
W-CDMA ILP Pass/Fail & Limits	yes	no	no	yes	yes	yes	yes	yes
HSDPA ILP	R2C-200810	no	no	no	no	no	yes	no

ANALYSIS TOOLS	E1963A	E6703A	E6703B	E6703C	E6703D	E6703E/U	E6703F*	E6703T
Continuous Ping	no	no	no	no	yes	yes	yes	yes
Data Throughput Monitor	no	no	yes	yes	yes	yes	yes	yes
E-TFCI Enh Recording-all/ good CRC	Opt 413	no	no	no	no	yes	yes	no
HSDPA Protocol Logging	no	no	no	yes	yes	yes	yes	yes
HSPA Protocol Logging	no	no	no	no	no	yes	yes	no
Internal TCP Data Generator	no	no	no	no	no	yes	yes	no
Spectrum Monitor	yes	yes	yes	yes	yes	yes	yes	yes
WCDMA Protocol Logging	no	yes	yes	yes	yes	yes	yes	yes

HANDOVERS	E1963A	E6703A	E6703B	E6703C	E6703D	E6703E/U	E6703F*	E6703T
1-box 2G/GAN/3G handovers	no	no	no	no	no	no	E6708A	no
2-cell Inter-RAT Data Reselect/CCO	no	no	no	no	yes	yes	yes	yes
2-cell Inter-RAT DTM ↔ Sim Svcs Handover	no	no	no	no	no	yes	yes	no
2-cell Inter-RAT Voice Handover	no	no	no	no	no	yes	yes	no
3G/UMA Data handover	no	no	no	no	no	no	E6708A	no
3G/UMA Voice handover	no	no	no	no	no	yes	yes	no
Band IV and V indicator	yes	no	no	yes	yes	yes	yes	yes
Band VI (800 MHz)	yes	no	no	yes	yes	yes	yes	yes
Band VII	yes	no	no	no	yes	yes	yes	yes
Band X	yes	no	no	no	yes	yes	yes	yes
Bands VIII and IX	yes	no	no	yes	yes	yes	yes	yes
Bands XI	yes	no	no	no	no	yes	yes	no
Bands XII, XIII, XIV	R2C-200810	no	no	no	no	no	yes	no
Physical Channel Reconfig	yes	yes	yes	yes	yes	yes	yes	yes
Radio Bearer Reconfig	Opt 403 & 413	no	no	yes	yes	yes	yes	yes
RB to Voice Inter-RAT: 1-box	E1987A	yes	yes	yes	yes	yes	yes	yes
Soft Handover	no	yes	yes	yes	yes	yes	yes	yes
Soft Handover Cell Time Diff	no	no	no	yes	yes	yes	yes	yes
Transport Chan Reconfig	yes	no	yes	yes	yes	yes	yes	yes
UE reports	yes	yes	yes	yes	yes	yes	yes	yes
Voice to Voice Inter-RAT: 1-box	E1987A	no	yes	yes	yes	yes	yes	yes

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IMPAIRMENTS	E1963A	E6703A	E6703B	E6703C	E6703D	E6703E/U	E6703F*	E6703T
AWGN	yes	yes	yes	yes	yes	yes	yes	yes
Connected DL Levels	yes	no	no	yes	yes	yes	yes	yes
Downlink Rates	no	no	no	yes	yes	yes	yes	yes
Fading	no	no	no	yes	yes	yes	yes	yes

Some applications and application features require an E5515 hardware upgrade to run. Please contact your Agilent Sales Representative for upgrade information.