

Keysight Technologies

W-CDMA/HSPA Applications Feature Comparison

October 2014

Network Behaviors	E1963A	E6703C	E6703D	E6703E/U	E6703T	E6703F	E6703G	E6703H	6703I	E6703J
128k UL/384k DL PS Data	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
128 k UL/HSDPA DL PS Data	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14.4/57.6 k CS , 64k PS Data	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
64,384k UL/384k DL PS Data	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
384 k UL/HSDPA DL PS Data	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
64 k UL/HSDPA DL PS Data	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
64 k UL/DL CS Data RAB	Opt 401	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5.7 Mbps HSUPA RB Test Mode	Opt 413	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes
5.7 Mbps HSUPA PS Data	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes
7.2 Mbps HSDPA RB Test Mode	Opt 403	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7.2 Mbps HSDPA PS Data	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14.4 Mbps HSDPA RB Test Mode	Opt 405	No	No	No	No	Yes	Yes	Yes	Yes	Yes
14.4 Mbps HSDPA PS Data	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
21 Mbps HSPA+ RB Test Mode – DL Only	Opt 423	No	No	No	No	Yes	Yes	Yes	Yes	Yes
21 Mbps HSPA+ PS Data – DL Only	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
11.5 Mbps HSPA+ RB Test Mode – UL Only	Opt 423 R2C-201010	No	No	No	No	No	Yes	Yes	Yes	Yes
11.5 Mbps HSPA+ PS Data – UL Only	No	No	No	No	No	No	Yes	Yes	Yes	Yes
42 Mbps DC-HSDPA RB Test Mode – DL Only	Opt 433	No	No	No	No	No	No	Yes	Yes	Yes
42 Mbps DC-HSDPA PS data – DL only	No	No	No	No	No	No	No	Yes	Yes	Yes
42 Mbps DB-DC-HSDPA RB Test Mode – DL Only	Opt 433 R2C-201302	No	No	No	No	No	No	No	Yes	Yes
42 Mbps DB-DC-HSDPA PS data – DL Only	No	No	No	No	No	No	No	No	Yes	Yes
42M HSDPA MIMO RB Test Mode - DL	Opt 435	No	No	No	No	No	No	No	Yes	Yes
42M HSDPA MIMO PS Data – DL	No	No	No	No	No	No	No	No	Yes	Yes
Access Point Name	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional UE Timers	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes
A-GPS Control Plane Messaging	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes

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A-GPS UE Reset msg, SS Pipe, Message Time Stamping	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
A-GPS UE Capability Positioning Message	No	No	No	No	No	No	Yes	Yes	Yes	Yes
AMR Codecs	Opt 408	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes
AMR Voice Echo	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AMR/AMR-WB Multi-rate Control	Opt 408	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Wideband Vocoders (Need Hardware H05)	Opt 408	No	No	No	No	No	No	No	Yes	Yes
Arbitrary Channel Code Config	Opt 405	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Audio Routing with GAN	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
BCCH Update Page	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Paging Indicator Settable	No	No	No	No	No	No	No	No	Yes	Yes
Calling Party Number	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cell Broadcast SMS	Opt 409	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CBSMS Schedule Message	No	No	No	No	No	No	No	No	Yes	Yes
Ciphering	No	No	No	No	No	E6715A	E6715A	E6715A	E6715A	E6715A
Authentication Parameters	No	No	No	No	No	No	No	No	Yes	Yes
Compressed Mode HSDPA	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes
Compressed Mode HSDPA(enh)	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Compressed Mode HSUPA	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Compressed Mode 384k DL Channel	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compressed Mode W-CDMA	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Query for Current DL/UL Frequency	Yes	No	No	No	No	No	No	Yes	Yes	Yes
Continuous Packet Connectivity for HSPA+	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Continuous Packet Connectivity sStatistical Counters	No	No	No	No	No	No	Yes	Yes	Yes	Yes
CPICH RSCP Enhanced Reporting	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes
CPICH RSCP Measurement Reporting Enhancement	R2C-201302	No	No	No	No	No	No	No	Yes	Yes
Extended Relative Level Settings for HSUPA Shannels	No	No	No	No	No	Yes	No	No	Yes	Yes
Downlink Power Control	No	No	No	No	No	No	Yes	Yes	Yes	Yes
F-DPCH	R2C-200908	No	No	No	No	Yes	Yes	Yes	Yes	Yes

Measurements	E1963A	E6703C	E6703D	E6703E/U	E6703T	E6703F	E6703G	E6703H	E6703I	E6703J
12.2 k RMC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
144 k RMC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
33 k No Code	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
384 k RMC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
64 k RMC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACLR HSDPA	Opt 403	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACLR HSUPA	Opt 413	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes
ACLR W-CDMA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Asym RMC LB msg	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Asymmetrical RMCs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BER Confidence Limits	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BER W-CDMA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BLER Asymmetric RMCs (AM)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BLER W-CDMA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Call Config Presets	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Change of TFC	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Channel Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Channel Power HSDPA	Opt 403	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Channel Power HSUPA	Opt 413	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes
Code Domain Power HSPA+	Opt 423 R2C-201004	No	No	No	No	No	Yes	Yes	Yes	Yes
Code Domain Power HSDPA	Opt 403	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Code Domain Power HSUPA	Opt 413	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes
Code Domain Power	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dummy DCCH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic Power Analysis HSDPA	Opt 403	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic Power Analysis	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Extended-range Dynamic Power	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fast Device Tune	E1999A-202	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HSDPA BLER	Opt 403	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HSDPA FRCs+12.2 k RMC	Opt 403	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HSPA (No 12.2 k RMC)	Opt 413	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes

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Handovers	E1963A	E6703C	E6703D	E6703E/U	E6703T	E6703F	E6703G	E6703H	E6703I	E6703J
Transport Channel Reconfig	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PLMN Parameters in PCR	R2C-201302	No	No	No	No	No	No	No	Yes	Yes
UE Reports	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Voice-to-voice Inter-RAT: 1-Box	E1987A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Analysis Tools	E1963A	E6703C	E6703D	E6703E/U	E6703T	E6703F	E6703G	E6703H	E6703I	E6703J
Continuous Ping	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Data Throughput Monitor	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
E-TFCI Enh Recording-all/Good CRC	Opt 413	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes
HSDPA Protocol Logging	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HSPA Protocol Logging	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes
DC-HSDPA Protocol Logging	No	No	No	No	No	No	No	Yes	Yes	Yes
DB-DC-HSDPA Protocol Logging	No	No	No	No	No	No	No	No	Yes	Yes
SIB19 Protocol Logging	No	No	No	No	No	No	No	No	Yes	Yes
Converting .tol to .pcap Format	No	No	No	No	No	No	No	No	Yes	Yes
Internal TCP Data Generator	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes
W-CDMA Protocol Logging	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Impairments	E1963A	E6703C	E6703D	E6703E/U	E6703T	E6703F	E6703G	E6703H	E6703I	E6703J
AWGN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Connected DL Levels	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Downlink Rates	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fading	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

1. Enhancements made with IPv6 router options and settable DUT IPv6 prefix