

GSM/(E)GPRS Applications Feature Comparison

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Cell support and connections	E1968A	E6701A	E6701B	E6701C	E6701D	E6701E/T	E6701F/U	E6701G	E6701H
450/480/700/RGSM bands	yes	no	yes	yes	yes	yes	yes	yes	yes
850/900/1800/1900 bands	yes	yes	yes	yes	yes	yes	yes	yes	yes
AMR Codecs	Opt 408	no	no	no	yes	yes	yes	yes	yes
Authentication	no	no	no	no	no	no	yes	yes	yes
BA Table (16 entry)	yes	yes	yes	yes	yes	yes	yes	yes	yes
BA Table (32 entry)	Yes	no	no	no	no	no	yes	yes	yes
BCCH	yes	yes	yes	yes	yes	yes	yes	yes	yes
Calls Via combined/non-combined SDCCH	no	no	no	no	no	yes	yes	yes	yes
Circuit Switched Data Channel	no	no	no	yes	yes	yes	yes	yes	yes
CSD Loop-back and BER	no	no	no	no	yes	yes	yes	yes	yes
DAI RFC4867 (.amr) format	Opt 408	no	no	no	no	no	yes	yes	yes
Digital Audio Interface, FR, HR, AMR, WB-AMR	Opt 408	no	no	no	no	no	yes	yes	yes
E-EDGE Support	Opt 104	no	no	no	no	no	yes	yes	yes
EGPRS Support	yes	no	no	yes	yes	yes	yes	yes	yes
Encryption (Ciphering) optional E6705A for LA only	no	no	no	no	no	no	yes	yes	yes
Equivalent PLMN	no	no	no	no	no	no	yes	yes	yes
ETSI A, ETSI B, BLER	yes	yes	yes	yes	yes	yes	yes	yes	yes
GPRS Support	yes	yes	yes	yes	yes	yes	yes	yes	yes
GSM Real Time Vocoder	Opt 408	no	no	no	no	no	yes	yes	yes
GSM Support	yes	no	no	yes	yes	yes	yes	yes	yes
HR, FR and EFR Codecs	yes	no	no	yes	yes	yes	yes	yes	yes
IP Data Channel (Auto)	no	yes	yes	yes	yes	yes	yes	yes	yes
Multi-Tone Audio	yes	no	no	yes	yes	yes	yes	yes	yes
Packet SI Status Indication	no	no	no	no	no	no	yes	yes	yes
PBCCH	no	no	yes	yes	yes	yes	yes	yes	yes
(P)BCH setting enhancements	no	no	no	no	no	yes	yes	yes	yes



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Real-Time Vocoder Calibration	Opt 408	no	no	no	no	no	no	yes	yes
SRB (EGPRS)	yes	no	no	yes	yes	yes	yes	yes	yes
T-GSM_810 (China)	yes	no	no	no	yes	yes	yes	yes	yes
UMA/GAN	no	no	no	no	no	no	yes	yes	yes
WB-AMR Codecs	Opt 408	no	no	no	no	yes	yes	yes	yes
Single channel GPS source	E1999A-206	no	no	no	no	no	no	yes	yes

Signaling Control	E1968A	E6701A	E6701B	E6701C	E6701D	E6701E/T	E6701F	E6701G	E6701H
2-box cell (re-)selection	no	no	no	no	no	no	yes	yes	yes
2-box data transfer/2-box voice calls GSM<>W-CDMA	no	no	no	no	no	yes/ no	yes/yes	yes	yes
2-box Network Assisted Cell Change (NACC)	no	no	no	no	no	no	yes	yes	yes
2-box release 6 Packet Data HO	no	no	no	no	no	no	yes	yes	yes
2-box Synchronized Handovers	no	no	no	no	no	no	no	yes	yes
ACCESS burst for control Ack	no	no	no	no	no	yes	yes	yes	yes
Additional Radio Access Capabilities	no	no	no	no	no	no	no	yes	yes
A-GPS control plane message pipe	no	no	no	yes	yes	yes	yes	yes	yes
A-GPS Reset UE position, SS pipe, message time stamping	no	no	no	no	no	no	yes	yes	yes
A-GPS Classmark results	no	no	no	no	no	no	no	no	yes
Binary CB SMS	Opt 409	no	no	no	no	yes	yes	yes	yes
Binary SMS (for MMS test)	Opt 409	no	no	no	yes	yes	yes	yes	yes
BLER Early re-transmissions	no	no	no	no	no	no	yes	yes	yes
Calling Party (Caller ID)	no	no	no	no	yes	yes	yes	yes	yes
Cell Selection Indicator	no	no	no	no	no	no	yes	yes	yes
Class 12 signaling	yes	no	no	no	yes	yes	yes	yes	yes
Class 30,31,32,33 signaling	Opt 430	no	no	no	no	yes	yes	yes	yes

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Class 34 signaling	Opt 430	no	no	no	no	no	yes	yes	yes
Class 45 signaling	Opt 431	no	no	no	no	no	no	yes	yes
Continuous Ping	no	no	no	no	no	yes	yes	yes	yes
Continuous Timing Advance	no	no	yes	yes	yes	yes	yes	yes	yes
DNS Addressing	no	no	no	no	no	yes	yes	yes	yes
Downlink Block Corruption	no	no	no	yes	yes	yes	yes	yes	yes
Downlink DTx	no	no	no	no	no	no	yes	yes	yes
Dual Transfer Mode (DTM)	no	no	no	no	no	yes	yes	yes	yes
Dynamic/Fixed/Ext Dynamic Allocation	y/n/n	y/n/n	y/y/n	y/y/n	y/y/y	y/y/y	y/y/y	yes	yes
E-EDGE 2A 16/32 QAM Support	no	no	no	no	no	no	no	no	yes
E-EDGE FANR in test mode	no	no	no	no	no	no	no	no	yes
E-EDGE Downlink Dual Carrier	Opt 104	no	no	no	no	no	no	yes	yes
E-EDGE Reduced TTI	Opt 104	no	no	no	no	no	no	yes	yes
E-EDGE SSN and time-based Fast Ack/Nack Response (FANR)	Opt 104	no	no	no	no	no	no	yes	yes
(E)GPRS Asymmetrical SRB loopback	no	no	no	no	no	no	no	yes	yes
EGPRS Flexible Timeslots	no	no	no	no	no	no	no	yes	yes
EGPRS one phase access	no	no	no	no	no	no	no	no	yes
Enhanced GAN (E6708A)	no	no	no	no	no	no	no	yes	yes
E-OTD	no	no	no	yes	yes	yes	yes	yes	yes
Extended SMS User Settings	Opt 409	no	no	no	yes	yes	yes	yes	yes
Extended UL TBF, Delayed DL TBF and TBF Re-establish	no	no	no	no	no	yes	yes	yes	yes
Fading with Baseband Studio	no	no	no	no	no	no	no	yes	yes
Fast Switch Lab Application Call/Session Continuity	no	no	no	no	no	no	no	yes	yes
Final Block Polling	no	no	no	no	no	no	yes	yes	yes
Forced uplink retransmission	no	no	no	yes	yes	yes	yes	yes	yes
Frequency Hopping	no	no	no	no	yes	yes	yes	yes	yes

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GPRS Packet Paging	no	no	no	no	no	no	no	yes	yes
GPRS Point to Point SMS	Opt 409	no	yes	yes	yes	yes	yes	yes	yes
GSM Cell Broadcast (CB) SMS	Opt 409	no	yes	yes	yes	yes	yes	yes	yes
GSM Enhanced Power Control (EPC)	no	no	no	no	no	no	no	yes	yes
GSM Point to Point SMS	Opt 409	no	no	yes	yes	yes	yes	yes	yes
Incremental Redundancy	no	no	no	yes	yes	yes	yes	yes	yes
Independent DL/UL GPRS Coding Schemes	no	no	no	no	no	no	no	yes	yes
Infrequent Network Events	no	no	yes	yes	yes	yes	yes	yes	yes
Inter-RAT 2-box 2G DTM <--> 3G PSD + Voice HO	no	no	no	no	no	no	yes	yes	yes
IPv6 support	R2C-200909	no	no	no	no	no	no	yes	yes
LAU/RAU Reject	no	no	no	no	no	no	yes	yes	yes
Mobile Originated Call Control	no	no	no	no	no	no	no	yes	yes
Multi-page Custom CB SMS	Opt 409	no	no	no	no	yes	yes	yes	yes
Multiple PDP Contexts	no	no	no	no	no	yes	yes	yes	yes
Network Initiated Time Zone (NITZ)	no	no	no	no	no	no	no	yes	yes
Network PDP Context disable	no	no	no	no	no	no	yes	yes	yes
Packet Flow Context	no	no	no	no	no	no	yes	yes	yes
Power Reduction Mode	no	no	no	no	no	no	yes	yes	yes
PSI Scheduling	no	no	no	no	no	no	yes	yes	yes
Push to talk over Cellular (PTT or PoC)	no	no	no	no	no	yes	yes	yes	yes
Repeating SACCH & FACCH	no	no	no	no	no	yes	yes	yes	yes
RLC/MAC Window Size	no	no	no	no	no	yes	yes	yes	yes
Robust Header Compression (RoHC)	no	no	no	no	no	no	no	yes	yes
RRLP RR Header	no	no	no	no	no	no	yes	yes	yes
Secondary PDP Contexts	no	no	no	no	no	no	yes	yes	yes
Service Interoperability	no	no	no	yes	yes	yes	yes	yes	yes

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Settable Alpha and Gamma	no	no	no	no	no	no	yes	yes	yes
Settable BEP_Period2	no	no	no	no	no	no	no	yes	yes
Settable Network Mode of Operation (NMO)	no	no	no	no	no	no	yes	yes	yes
Settable timers (T3212, T3312, T308, T3192, T3314)	no	no	no	no	no	no	yes	yes	yes
SMSC Address Setting	no	no	no	no	no	no	yes	yes	yes
Timing Advance setting	yes	yes	yes	yes	yes	yes	yes	yes	yes
TMSI Paging	no	no	no	no	no	yes	yes	yes	yes
UMA/GAN with E6962A	no	no	no	no	no	no	yes	yes	yes
UMA/GAN with E6962B	no	no	no	no	no	no	no	yes	yes
Unassigned and Random USF	no	no	no	no	yes	yes	yes	yes	yes
Uplink Data Timeout	no	no	no	no	no	no	yes	yes	yes
User Settable USF	no	yes	yes	yes	yes	yes	yes	yes	yes
USF BLER	no	no	yes	yes	yes	yes	yes	yes	yes
Random frequency offset	R2C 200909	no	no	no	no	no	no	yes	yes

Measurements and Reports	E1968A	E6701A	E6701B	E6701C	E6701D	E6701E/T	E6701F	E6701G	E6701H
3G Measurement Reports	no	no	no	no	no	yes	yes	yes	yes
4xUL Measurements	yes	no	no	no	no	yes	yes	yes	yes
5xUL Measurements	Opt 430	no	no	no	no	no	yes	yes	yes
6xUL Measurements	Opt 431	no	no	no	no	no	no	yes	yes
AMR I-FER	no	no	no	no	yes	yes	yes	yes	yes
AM-PM timing offset	R2C- 200909	no	no	no	no	no	no	yes	yes
Bad Frame Indication (BFI)	no	no	no	yes	yes	yes	yes	yes	yes
BER	yes	yes	yes	yes	yes	yes	yes	yes	yes

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BER Loop D	no	no	no	no	no	no	yes	yes	yes
BFI AMR and ½ Rate	no	no	no	no	no	no	yes	yes	yes
BLER Measurement	yes	yes	yes	yes	yes	yes	yes	yes	yes
BLER MS Report	yes	yes	yes	yes	yes	yes	yes	yes	yes
Class 12 Signaling	yes	no	no	no	no	no	yes	yes	yes
Class 34 Signaling	Opt 430	no	no	no	no	no	yes	yes	yes
Class 45 Signaling	Opt 431	no	no	no	no	no	no	yes	yes
Digital (fast) ORFS	yes	no	no	no	yes	yes	yes	yes	yes
Discontinuous Transmit Power	R2C-200909	no	no	no	no	no	no	yes	yes
EGPRS MS Reports	no	no	no	yes	yes	yes	yes	yes	yes
(E)GPRS Class 12 EVM/PFER	yes	no	no	no	no	no	yes	yes	yes
(E)GPRS Class 12 ORFS	yes	no	no	no	no	no	yes	yes	yes
(E)GPRS Class 12 PvT	yes	no	no	no	no	no	yes	yes	yes
(E)GPRS Class 12 TxPower	yes	no	no	no	no	yes	yes	yes	yes
(E)GPRS Class 34 TxP and PvT	Opt 430	no	no	no	no	no	yes	yes	yes
Enhanced Reports	no	no	no	no	no	yes	yes	yes	yes
FACCH FER	no	no	no	yes	yes	yes	yes	yes	yes
Fast Device Tune	E1999A-202	no	no	no	no	yes	yes	yes	yes
GPRS MS Reports	no	no	yes	yes	yes	yes	yes	yes	yes
GSM MS Reports	yes	no	no	yes	yes	yes	yes	yes	yes
IP Data Throughput Monitor	no	no	no	no	yes	yes	yes	yes	yes
IQ capture	Opt 411	no	no	no	no	no	yes	yes	yes
Modulation Accuracy	yes	no	no	yes	yes	yes	yes	yes	yes
MS calculate BER	Opt 419	no	no	no	no	no	yes	yes	yes
Payload Data Pattern Options	yes	no	yes	yes	yes	yes	yes	yes	yes
Perceptual Evaluation of Speech Quality (PESQ) Measurement	no	no	no	no	no	no	no	no	E1999A-301

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Phase and Amp vs Time (PAvT)	Opt 410	no	no	no	yes	yes	yes	yes	yes
Power in unused timeslots	yes	no	yes	yes	yes	yes	yes	yes	yes
SACCH Error Measurement	no	no	no	no	no	no	yes	yes	yes
Spectrum Monitor	yes	no	yes	yes	yes	yes	yes	yes	yes
TxP, PvT, ORFS, PFER	yes	yes	yes	yes	yes	yes	yes	yes	yes

Others	E1968A	E6701A	E6701B	E6701C	E6701D	E6701E/T	E6701F	E6701G	E6701H
Basic GSM Frame Triggering	yes	yes	yes	yes	yes	yes	yes	yes	yes
Extended Frame Triggering	no	no	yes	yes	yes	yes	yes	yes	yes
Protocol Event Triggering	no	no	yes	yes	yes	yes	yes	yes	yes
Support 2 nd RF out	yes	no	yes	yes	yes	yes	yes	yes	yes
Save Recall	yes	no	no	yes	yes	yes	yes	yes	yes
Internet Explorer Logging	no	yes	yes	yes	yes	yes	yes	yes	yes
Wireless Protocol Advisor (WPA)	no	no	yes	yes	yes	yes	yes	yes	yes
WPA for 2-box handoff	no	no	no	no	no	yes	yes	yes	yes

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