

5G abbreviations

| Abbreviation | Stands for ... |
|--------------|--|
| 2G | Second generation |
| 3G | Third generation |
| 3GPP | Third generation partnership project |
| 4G | Fourth generation |
| 5G | Fifth generation |
| AF | Application function |
| AMF | Access and mobility function |
| AMPS | Advance mobile phone system |
| AMR | Adaptive multi-rate voice CODEC |
| AR | Augmented reality |
| ARIB | Association of radio industries and businesses (Japan) |
| ATIS | Alliance for telecommunications industry solutions (USA) |
| AuC | Authentication centre |
| AUSF | Authentication server function |
| AVG | Automated guided vehicles |
| BSC | Base station controller |
| BSS | Base station sub-system |
| BTS | Base transceiver station |
| C-450 | C network – 450 MHz band |
| CA | Carrier aggregation |
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| CCSA | China communications standards association |
| CDMA IS-95 | Code division multiple access Interim standard 1995 |
| CDMA-2000 | Code division multiple access - 2000 |
| C-ITS | Cooperative intelligent transport systems and services |
| CoMP | Coordinated multi-point transmission/reception |
| CS | Circuit switched |
| CU | Central unit |
| DN | Data network |
| DSS | Dynamic spectrum sharing |
| DU | Distributed unit |
| EDGE | Enhanced data rates for GSM evolution |
| EFR | Enhanced full rate GSM voice codec |
| eICIC | Enhanced ICIC |
| EIR | Equipment identity register |
| eLAA | Enhanced LAA |
| eLWA | Enhanced LWA |
| eMBMS | Evolved MBMS |
| eNB | Evolved node B |
| EN-DC | eUTRA-NR dual connectivity |
| EPC | Evolved packet core |
| ETSI | European telecommunications standards institute |
| ETSI | European telecommunications standards institute |
| eUTRAN | Evolved universal terrestrial radio access network |
| FDD | Frequency division duplex |
| FeICIC | Further enhanced ICIC |
| FR | Full rate GSM voice codec |
| GERAN | GSM EDGE radio access network |
| GGSN | Gateway GPRS support node |

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|--------------|--|
| GMSC | Gateway MSC |
| gNB | Next generation NB with NR |
| GPRS | General packet radio service |
| GSM | Global system for mobile communications |
| HetNets | Heterogenous networks |
| HLR | Home location register |
| HSCSD | High-speed circuit switched data |
| HSDPA | High-speed downlink packet access |
| HSPA | High speed packet access |
| HSPA | High-speed packet access |
| HSPA+ | Evolution of HSPA |
| HSS | Home subscriber server |
| HSUPA | High-speed uplink packet access |
| ICIC | Inter-cell interference coordination |
| IMS | IP multimedia system |
| IMT | International mobile telecommunications |
| ISDN | Integrated services digital network |
| ITU | International telecommunication union |
| JTACS | Japan total access communications system |
| LA | License assisted |
| LAA | License assisted access |
| LPWA | Low power Wide area |
| LTE | Long term evolution |
| LTE-A | LTE Advanced |
| LTE-U | LTE – unlicensed spectrum |
| LWA | LTE-WLAN aggregation |
| M2M | Machine to machine |
| MBMS | Multimedia broadcast service |
| MEC | Multi-access edge computing |
| MIMO | Multiple input, multiple output |
| MME | Mobility management entity |
| MS | Mobile station |
| MSC | Mobile switching centre |
| NB | Node B |
| NE-DC | NR-eUTRA dual connectivity |
| NG EN-DC | Next generation EN-DC |
| ng-eNB | Next generation eNB supporting LTE air interface |
| ng-RAN | Next generation RAN |
| NMS | Network management sub-system |
| NMT | Nordic mobile telephone |
| NR | New radio |
| NSA | Non-standalone |
| NSS | Network switching sub-system |
| NSSF | Network slice selection function |
| OFDMA | Orthogonal |
| OSS | Operations support system |
| PCF | Policy control function |
| PCRF | Policy and charging rules function |
| PDC | Personal digital cellular |

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|--------------|--|
| P-GW | Packet data network (PDN) gateway |
| PLMN | Public land mobile network |
| PS | Packet switched |
| PSTN | Public switched telephone network |
| QoS | Quality of service |
| RAN | Radio access network |
| RAS | Radio access system |
| RF | Radio frequency |
| RNC | Radio network controller |
| RNS | Radio network system |
| RTMI | Radio telefono mobile integrato |
| RTT | Round trip time |
| SA | Standalone |
| SGSN | Serving GPRS support node |
| S-GW | Serving gateway |
| SMF | Session management function |
| SMS | Short message service |
| TACS | Total access communications system |
| TDD | Time division duplex |
| TD-SCDMA | Time division – Synchronous CDMA |
| TMA | Telefonía móvil automática (automated mobile telephony) |
| TSDSI | Telecommunications standards development society (India) |
| TSN | Time sensitive networking |
| TTA | Telecommunications technology association (Korea) |
| TTC | Telecommunication technology committee (Japan) |
| TZ-80n | Japanese analog cellular technologies |
| UAV | Unmanned aerial vehicle |
| UDM | Unified data management |
| UE | User equipment |
| UMTS | Universal mobile telecommunications system |
| UPF | User plane function |
| UTRAN | UMTS terrestrial radio access network |
| V2V | Vehicle to vehicle |
| V2X | Vehicle to anything (X) |
| VLR | Visitor location register |
| VoIP | Voice over IP |
| VoLTE | Voice over LTE |
| VR | Virtual reality |
| WCDMA | Wideband CDMA |