

Added Networks							
Country	Network Name	PZ	2G	3G	4G	5G	LTE-M
Equatorial Guinea (GNQ)	Green Com S.A (GNQHT)	5	YES	YES	NO	NO	NO
Seychelles (SYC)	Cable & Wireless (SYCCW)	5	YES	YES	YES	NO	NO
Liberia (LBR)	MTN (LBRLC)	4	YES	YES	YES	NO	NO
Cuba (CUB)	Cubacell (CUB01)	5	YES	YES	NO	NO	NO
French Polynesia (PYF)	Vodafone French Polynesia (PYFVF)	5	YES	YES	YES	NO	NO
Pakistan (PAK)	Telenor (PAKTP)	3	YES	YES	YES	NO	NO

Removed Networks/Technologies							
Country	Network Name	PZ	2G	3G	4G	5G	LTE-M
Benin (BEN)	Etisalat Benin S.A (BEN02)						Removed
Ivory Coast (CIV)	Moov (CIV02)						Removed
Togo (TGO)	Moov (Telecel) (TGOTL)						Removed
Panama (PAN)	Claro (PANCL)						Removed

Added 4G			
Country	Network Name	PZ	4G
Sierra Leone (SLE)	AFR LINTEL (SLEAC)	5	YES
Bolivia (BOL)	Telecel (BOLTE)	4	YES
Colombia (COL)	OLA/Tigo (COLCO)	4	YES
Rwanda (RWA)	MTN (RWAMN)	4	YES
Uruguay (URY)	Claro (CTI) (URYAM)	5	YES

Added 5G			
Country	Network Name	PZ	5G
Austria (AUT)	A1 (AUTPT)	1	YES
Bahrain (BHR)	zain BH (BHRMV)	5	YES
Canada (CAN)	Bell Mobility inc. (CANBM)	2	YES
Canada (CAN)	Rogers Wireless Inc (CANRW)	4	YES
Cyprus (CYP)	CytaMobile (CYPCT)	1	YES
Finland (FIN)	GSM Aland (FINAM)	1	YES
France (FRA)	SFR (FRAF2)	1	YES
France (FRA)	Bouygues Telecom (FRAF3)	1	YES
Gibraltar (GIB)	Gibtel (GIBGT)	4	YES
Hungary (HUN)	Vodafone (HUNVR)	1	YES
Iceland (ISL)	Siminn (ISLPS)	1	YES
Luxembourg (LUX)	POST (LUXPT)	1	YES
Luxembourg (LUX)	Orange (LUXVM)	1	YES
Malta (MLT)	Melita Mobile Ltd. (MLTMM)	1	YES
Slovenia (SVN)	Mobitel (SVNMT)	1	YES
Denmark (DNK)	Telenor A/S (DNKDM)	1	YES

Added LTE-M			
Country	Network Name	PZ	LTE-M
Austria (AUT)	A1 (AUTPT)	1	YES
Mexico (MEX)	AT&T (Iusacell) (MEXIU)	4	YES

Zone Adjustments			
Country	Network Name	New Zone	Old Zone
Congo Democratic Rep of (COD)	Vodacom Congo (CODVC)	5	SC1
Pakistan (PAK)	Ufone (PAKUF)	3	SC2

Country	Network Name	Zone*	Roaming Restrictions	2G	3G	4G	5G	LTE-M
Afghanistan (AFG)	Afghan Wireless (AFGAW)	4		YES	YES	NO	NO	NO
Afghanistan (AFG)	Etisalat (AFGEA)	5		YES	YES	NO	NO	NO
Afghanistan (AFG)	MTN (AFGAR)	4		YES	YES	NO	NO	NO
Afghanistan (AFG)	Roshan (AFGTD)	4		YES	YES	NO	NO	NO
Albania (ALB)	AMC / T-mobile (ALBAM)	3		YES	YES	NO	NO	NO
Albania (ALB)	Eagle Mobile (ALBEM)	3		YES	YES	NO	NO	NO
Albania (ALB)	Vodafone Albania (ALBVF)	2		YES	YES	YES	NO	NO
Algeria (DZA)	ATM Mobilis (DZAA1)	5		YES	YES	YES	NO	NO
Algeria (DZA)	Djezzy (DZAOT)	5		YES	YES	YES	NO	NO
Algeria (DZA)	Wataniya Telecom Algeria (DZAWT)	5		YES	YES	YES	NO	NO
Andorra (AND)	Mobiland (ANDMA)	2		YES	YES	NO	NO	NO
Anguilla Island (AIA)	Cable & Wireless (AICW)	5		YES	YES	YES	NO	NO
Antigua (ATG)	Cable & Wireless (ATGCW)	5		YES	YES	YES	NO	NO
Argentina (ARG)	Claro (ARGCM)	4		YES	YES	YES	NO	NO
Argentina (ARG)	Personal (ARGTP)	4		YES	YES	YES	NO	NO
Argentina (ARG)	Telefonica (ARGTM)	4		YES	YES	YES	NO	NO
Armenia (ARM)	Orange Armenia CJSC (ARMOR)	3		YES	YES	NO	NO	NO
Armenia (ARM)	Telecom Armenia (ARM01)	3		YES	YES	YES	NO	NO
Armenia (ARM)	Vivacell (ARM05)	3		YES	YES	NO	NO	NO
Aruba (ABW)	Digicel (ABWDC)	4		YES	YES	NO	NO	NO
Aruba (ABW)	Setar (ABWSE)	4		YES	YES	YES	NO	NO
Australia (AUS)	Telstra MobileNet (AUSTA)	3	Special SIM type required	NO	YES	YES	NO	NO
Australia (AUS)	Vodafone (AUSVF)	3	Special SIM type required	NO	YES	YES	YES	NO
Austria (AUT)	A1 (AUTPT)	1		YES	YES	YES	YES	YES
Austria (AUT)	T-Mobile (AUTMM)	1		YES	YES	YES	YES	YES
Azerbaijan Rep of (AZE)	Azercell (AZEAC)	4		YES	YES	NO	NO	NO
Azerbaijan Rep of (AZE)	Bakcell GSM 2000 (AZEBC)	4		NO	YES	YES	NO	NO
Bahamas (BHS)	BTC The Bahamas Telecom Company (BHSBH)	5		YES	YES	YES	NO	NO
Bahamas (BHS)	NewCo (BHSNC)	5		NO	YES	NO	NO	NO
Bahrain (BHR)	BHR Mobile Plus (BHRBT)	5		NO	YES	NO	NO	NO
Bahrain (BHR)	VIVA Bahrain (BHRST)	5		YES	YES	NO	NO	NO
Bahrain (BHR)	zain BH (BHRMV)	5		YES	YES	YES	YES	NO
Bangladesh (BGD)	Airtel (Bangladesh) (BGDWT)	7		YES	YES	NO	NO	NO
Bangladesh (BGD)	Banglalink (BGDBL)	3		YES	YES	NO	NO	NO
Bangladesh (BGD)	Grameenphone (BGDGP)	3		YES	YES	NO	NO	NO
Bangladesh (BGD)	Robi (BGDAK)	4		YES	YES	YES	NO	NO
Barbados (BRB)	Cable & Wireless (BRBCW)	5		YES	YES	YES	NO	NO
Belarus Rep of (BLR)	BEST / Life :) (BLRBT)	3		YES	YES	YES	NO	NO
Belarus Rep of (BLR)	MTS (BLR02)	3		YES	YES	YES	NO	NO
Belarus Rep of (BLR)	VELCOM (BLRMD)	3		YES	YES	YES	NO	NO
Belgium (BEL)	Base (BELKO)	1		YES	YES	YES	NO	Presumed
Belgium (BEL)	Orange (BELMO)	1		YES	YES	YES	NO	YES
Belgium (BEL)	Proximus (BELTB)	1		YES	YES	YES	YES	NO
Bermuda (BMU)	Bermuda Digital (BMUBD)	3		YES	YES	NO	NO	NO
Bhutan (BTN)	Tashi InfoComm Limited (BTNTC)	SC1		YES	YES	YES	NO	NO
Bolivia (BOL)	Telecel (BOLTE)	4		YES	YES	YES	NO	NO
Bonaire (BES)	Digicel Curacao & Bonaire (BONDC)	4		YES	YES	NO	NO	NO
Bosnia and Herzegovina (BIH)	BIH (BIHPT)	3		YES	YES	YES	NO	NO
Bosnia and Herzegovina (BIH)	HT Eronet (BIHER)	2		YES	YES	YES	NO	NO
Bosnia and Herzegovina (BIH)	m:tel (BIHMS)	3		YES	YES	YES	NO	NO
Botswana (BWA)	beMobile (BWABC)	4		YES	YES	NO	NO	NO
Botswana (BWA)	Mascom Wireless (BWAGA)	4		YES	YES	YES	NO	NO
Brazil (BRA)	TIM (BRACS)	5	No permanent	YES	YES	YES	NO	NO
Brazil (BRA)	TIM (BRARN)	5	No permanent	YES	YES	YES	NO	NO
Brazil (BRA)	TIM (BRASP)	5	No permanent	YES	YES	YES	NO	NO
Brazil (BRA)	VIVO Participacoes S.A. (BRATC)	3	No permanent	YES	YES	YES	YES	NO
British Virgin Islands (VGB)	Cable & Wireless (VGBCW)	5		YES	YES	YES	NO	NO
British Virgin Islands (VGB)	Digicel British Virgin Islands (VGBDC)	4		YES	YES	NO	NO	NO
Brunei Darussalam (BRN)	DSTCom /UNN (BRNDS)	5		NO	YES	NO	NO	NO
Bulgaria (BGR)	M-Tel Gsm (BGR01)	1		YES	YES	YES	YES	NO
Bulgaria (BGR)	Telenor / Globul (BGRCM)	1		YES	YES	YES	YES	NO
Bulgaria (BGR)	Vivacom (BGRVA)	1		YES	YES	YES	YES	NO
Burkina Faso (BFA)	Orange (BFACT)	SC4		YES	YES	NO	NO	NO
Burundi (BDI)	Smart (BDL1L)	7		YES	YES	NO	NO	NO
Burundi (BDI)	U-COM (BDITL)	5		YES	YES	NO	NO	NO
Cambodia (KHM)	Cellcard (KHMGM)	3		YES	YES	YES	NO	NO
Cambodia (KHM)	Metfone (KHMVC)	3		YES	YES	YES	NO	NO
Cambodia (KHM)	Smart Axiata Co., Ltd (KHMSM)	4		YES	YES	YES	NO	NO
Cameroon (CMR)	MTN (CMRMT)	5		YES	YES	YES	NO	NO
Canada (CAN)	Bell Mobility inc. (CANBM)	2	No permanent	NO	YES	YES	YES	YES
Canada (CAN)	Rogers Wireless Inc (CANRW)	4	No permanent	NO	YES	YES	YES	NO
Canada (CAN)	TELUS (CANTS)	2	No permanent	NO	YES	YES	YES	NO
Cape Verde (CPV)	CVMovel (CPVCV)	5		YES	YES	YES	NO	NO
Cape Verde (CPV)	Unitel T+ (CPVTM)	5		YES	YES	YES	NO	NO
Cayman Islands (CYM)	Cable & Wireless (CYMCW)	5		YES	YES	YES	NO	NO
Central African Republic (CAF)	Orange (CAF03)	SC4		YES	YES	NO	NO	NO
Chad (TCD)	Airtel (TCDCT)	5		YES	YES	NO	NO	NO
Chad (TCD)	Tigo (TCDML)	5		YES	YES	NO	NO	NO
Chile (CHL)	Claro (CHLSM)	4		YES	YES	YES	NO	NO
Chile (CHL)	Entel PCS (CHLMV)	4		YES	YES	YES	NO	NO
Chile (CHL)	Telefonica (CHLTM)	4		YES	YES	NO	NO	NO
China (CHN)	China Mobile (CHNCT)	3	Special SIM type required	YES	NO	YES	YES	NO
China (CHN)	China Unicom (CHNCU)	3	Special SIM type required	NO	YES	YES	NO	NO
Colombia (COL)	Claro (COLCM)	4		YES	YES	NO	NO	NO
Colombia (COL)	Columbia Telecommunications S.A. ESP (COLTM)	4		YES	YES	YES	NO	NO
Colombia (COL)	OLA/Tigo (COLCO)	4		YES	YES	YES	NO	NO
Congo Democratic Rep of (COD)	Airtel (Celtel) (CODCT)	5		YES	YES	NO	NO	NO
Congo Democratic Rep of (COD)	Orange (CCT) (CODOR)	5		YES	YES	NO	NO	NO
Congo Democratic Rep of (COD)	Vodacom Congo (CODVC)	5		YES	YES	NO	NO	NO
Congo Rep of (COG)	MTN (COGLB)	3		YES	YES	NO	NO	NO

tech+ Coverage List World Q2 2023



Country	Network Name	Zone*	Roaming Restrictions	2G	3G	4G	5G	LTE-M
Costa Rica (CRI)	CLARO Costa Rica (CRICL)	4		YES	YES	YES	NO	Presumed
Costa Rica (CRI)	I.C.E. (CRICR)	4		YES	YES	YES	NO	NO
Costa Rica (CRI)	Telefonica (CRITC)	4		YES	YES	NO	NO	NO
Croatia (HRV)	T-Mobile Croatia (HRVCN)	1		YES	YES	YES	NO	NO
Croatia (HRV)	Tele2/Telemach (HRVT2)	1		YES	YES	YES	NO	NO
Croatia (HRV)	VIPnet (HRVVI)	1		YES	YES	YES	YES	NO
Cuba (CUB)	Cubacell (CUB01)	5		YES	YES	NO	NO	NO
Curacao (CUW)	Digicel Curacao & Bonaire (ANTCT)	4		YES	YES	YES	NO	NO
Curacao (CUW)	UTS (ANTUT)	5		YES	YES	YES	NO	NO
Cyprus (CYP)	CytaMobile (CYPCT)	1		YES	YES	YES	YES	NO
Cyprus (CYP)	EPIC / MTN (CYPSC)	1		YES	YES	YES	YES	NO
Cyprus (CYP)	PrimeTel (CYPPT)	1		NO	YES	YES	NO	NO
Czech Republic (CZE)	O2 (CZEET)	1		YES	YES	YES	YES	NO
Czech Republic (CZE)	T-Mobile (CZERM)	1		YES	NO	YES	YES	NO
Czech Republic (CZE)	Vodafone (CZECM)	1		YES	NO	YES	YES	NO
Denmark (DNK)	Nuuday A/S(TDC) (DNKTD)	1		YES	NO	YES	YES	NO
Denmark (DNK)	Telenor A/S (DNKDM)	1		YES	YES	YES	NO	YES
Denmark (DNK)	Telia Mobile (DNKIA)	1		YES	YES	YES	NO	YES
Dominica Island (DMA)	Cable & Wireless (DMACW)	5		YES	YES	YES	NO	NO
Dominican Republic (DOM)	Altice (DOM01)	5		YES	YES	YES	NO	NO
Dominican Republic (DOM)	Claro Dominicana (DOMCL)	5		YES	YES	NO	NO	NO
Dominican Republic (DOM)	Trilogy Dominicana S.A. (DOMAC)	5		YES	YES	NO	NO	NO
Ecuador (ECU)	Claro (ECUPG)	5		YES	YES	NO	NO	NO
Ecuador (ECU)	Telefonica (ECUOT)	5		YES	YES	YES	NO	NO
Egypt (EGY)	Etisalat (EGYEM)	3		YES	YES	YES	NO	NO
Egypt (EGY)	MobiNil (EGYAR)	4		YES	YES	YES	NO	NO
Egypt (EGY)	Vodafone Egypt (EGYMS)	4		YES	YES	YES	NO	NO
El Salvador (SLV)	Claro (SLVTP)	4		YES	YES	YES	NO	NO
El Salvador (SLV)	Digicel (SLVDC)	4		YES	NO	YES	NO	NO
El Salvador (SLV)	Telemovil (SLVTM)	4		YES	YES	NO	NO	NO
Equatorial Guinea (GNQ)	Green Com S.A (GNQHT)	5		YES	YES	NO	NO	NO
Estonia (EST)	AS Emt (ESTEM)	1		YES	YES	YES	NO	NO
Estonia (EST)	Elisa Eesti (ESTRE)	1		YES	YES	NO	NO	NO
Estonia (EST)	Tele2 Eesti AS (ESTRB)	1		YES	YES	YES	NO	NO
Faroe Islands (FRO)	Faroe Telecom (FROFT)	3		YES	YES	YES	NO	NO
Faroe Islands (FRO)	Kall Vodafone (FROKA)	3		YES	YES	NO	NO	NO
Fiji (FJI)	Digicel Fiji and Nauru (FJIDP)	5		YES	YES	YES	NO	NO
Finland (FIN)	DNA (FIN2G)	1		YES	YES	YES	NO	YES
Finland (FIN)	Elisa (FINRL)	1		YES	YES	YES	YES	YES
Finland (FIN)	GSM Aland (FINAM)	1		YES	YES	YES	YES	NO
Finland (FIN)	Sonera (FINTF)	1		YES	YES	YES	NO	NO
France (FRA)	Bouygues Telecom (FRAF3)	1		YES	YES	YES	YES	NO
France (FRA)	Free Mobile (FRAFM)	1		NO	YES	YES	NO	NO
France (FRA)	Orange (FRAF1)	1		YES	YES	YES	YES	YES
France (FRA)	SFR (FRAF2)	1		YES	YES	YES	YES	NO
French Guyana (GUF)	Digicel French Guyana (FRAF4)	1		YES	YES	NO	NO	NO
French Polynesia (PYF)	Vini/Tikiphone (FRATK)	5		YES	YES	NO	NO	NO
French Polynesia (PYF)	Vodafone French Polynesia (PYFVF)	5		YES	YES	YES	NO	NO
French West Indies (FRA)	Digicel (FRAF4)	1		YES	YES	NO	NO	NO
French West Indies (GLP)	Orange (GLP01)	4		YES	NO	NO	NO	NO
Gabon (GAB)	Airtel (Zain) (GABCT)	5		YES	YES	NO	NO	NO
Gambia (GMB)	Africell (Gambia) Ltd (GMBAC)	5		YES	YES	YES	NO	NO
Gambia (GMB)	Qcell (GMBQC)	7		YES	YES	NO	NO	NO
Georgia (GEO)	Beeline (GEOMT)	3		YES	YES	YES	NO	NO
Georgia (GEO)	GeoCell (GEOGC)	2		YES	YES	YES	NO	NO
Georgia (GEO)	Magti GSM (GEOGA)	4		YES	NO	NO	NO	NO
Germany (DEU)	T-Mobile (DEUD1)	1		YES	NO	YES	YES	YES
Germany (DEU)	Telefonica O2 (DEUE1)	1		YES	NO	YES	NO	Presumed
Germany (DEU)	VODAFONE D2 (DEUD2)	1		YES	NO	YES	YES	YES
Ghana (GHA)	Mobitel (GHAMT)	5		YES	YES	NO	NO	NO
Ghana (GHA)	MTN (GHASC)	5		YES	YES	NO	NO	NO
Ghana (GHA)	Vodafone Ghana (GHAGT)	3		YES	YES	YES	NO	NO
Gibraltar (GIB)	Gibtel (GIBGT)	4		YES	YES	YES	YES	NO
Greece (GRC)	T-mobile / Cosmote (GRCCO)	1		YES	NO	YES	YES	NO
Greece (GRC)	Vodafone (GRCPF)	1		YES	YES	YES	NO	NO
Greece (GRC)	Wind Hellas (GRCSH)	1		YES	YES	YES	YES	NO
Greenland (GRL)	Telegreenland 900 (GRLTG)	3		YES	YES	YES	NO	NO
Grenada Island (GRD)	Cable & Wireless (GRDCW)	5		YES	NO	YES	NO	NO
Guatemala (GTM)	Comcel (GTMCM)	4		YES	YES	YES	NO	NO
Guatemala (GTM)	Sercom- CLARO (GTMSC)	4		YES	YES	NO	NO	NO
Guernsey (GGY)	Sure (GBRGT)	1		YES	YES	YES	NO	NO
Guinea (GIN)	Areeba/MTN-Guinea (GINAG)	5		YES	YES	NO	NO	NO
Guyana (GUY)	Digicel (GUYUM)	4		YES	YES	YES	NO	NO
Haiti (HTI)	ComCEL (HTICL)	4		YES	YES	NO	NO	NO
Honduras (HND)	Celstel TIGO (HND02)	4		YES	NO	YES	NO	NO
Honduras (HND)	Claro (HNDME)	5		YES	YES	NO	NO	NO
Hong Kong (HKG)	China Mobile / Peoples (HKGPP)	3		YES	YES	YES	NO	NO
Hong Kong (HKG)	H3G Hong Kong (HKGH3)	2		NO	YES	YES	NO	NO
Hong Kong (HKG)	PCCW (HKGTC) (HKG M3)	2		NO	YES	NO	NO	NO
Hong Kong (HKG)	Smartone (HKGSM)	3		NO	YES	NO	NO	NO
Hungary (HUN)	T-Mobile (HUNH2)	1		YES	YES	YES	YES	NO
Hungary (HUN)	Telenor (HUNH1)	1		YES	YES	YES	NO	NO
Hungary (HUN)	Vodafone (HUNVR)	1		YES	YES	YES	YES	NO
Iceland (ISL)	Nova (ISLNO)	1		NO	YES	YES	YES	NO
Iceland (ISL)	Siminn (ISLPS)	1		YES	YES	YES	YES	Presumed
Iceland (ISL)	Vodafone / Fjarskipti (ISLTL)	1		YES	YES	YES	NO	NO
India (IND)	Airtel (Andhra Pradesh) (INDJH)	4		YES	NO	YES	NO	NO
India (IND)	Airtel (Delhi) (INDAT)	4		YES	NO	YES	NO	NO
India (IND)	Airtel (Karnataka) (INDJB)	4		YES	NO	YES	NO	NO
India (IND)	Airtel (Rajasthan) (INDH1)	4		YES	NO	YES	NO	NO

tech+ Coverage List World Q2 2023



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India (IND)	Airtel (Tamil Nadu) (INDA4)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Chennai (INDSC)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Gujarat (INDA3)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Himachal Pradesh (INDBL)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Kolkata (INDMT)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Madhya Pradesh (INDA8)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Maharashtra & Goa (INDA2)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Mumbai (INDA1)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Punjab (INDA9)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Uttar Pradesh West (INDA6)	4		YES	NO	YES	NO	NO
India (IND)	Idea Cellular Dehli (INDID)	4		YES	NO	NO	NO	NO
India (IND)	Idea Cellular Gujarat (INDBI)	4		YES	YES	NO	NO	NO
India (IND)	Idea Cellular Karnataka (INDSK)	4		YES	YES	NO	NO	NO
India (IND)	Idea Cellular Kerala (INDEK)	4		YES	YES	NO	NO	NO
India (IND)	Idea Cellular MADHYA PRADESH (INDMP)	4		YES	YES	NO	NO	NO
India (IND)	Idea cellular Maharastra (INDBO)	4		YES	YES	NO	NO	NO
India (IND)	Idea Cellular Uttar Pradesh West (INDEU)	4		YES	YES	NO	NO	NO
India (IND)	Vodafone Delhi (INDE1)	4		YES	YES	YES	NO	NO
India (IND)	Vodafone India Limited (INDHM)	4		NO	NO	YES	NO	NO
Indonesia (IDN)	Hutchison 3 (IDN89)	4		YES	YES	NO	NO	NO
Indonesia (IDN)	Indosat (IDNSL)	4		YES	YES	YES	NO	NO
Indonesia (IDN)	Telekomsel (IDNTS)	3		YES	YES	YES	NO	NO
Iran (IRN)	IranCell (IRNMI)	4		YES	YES	NO	NO	NO
Iran (IRN)	MCI (IRN11)	4		YES	YES	NO	NO	NO
Iran (IRN)	RighTel (IRNTT)	SC1		YES	YES	NO	NO	NO
Iraq (IRQ)	Asiacell (IRQAC)	3		YES	YES	YES	NO	NO
Iraq (IRQ)	Korek Telecom (IRQKK)	5		YES	YES	NO	NO	NO
Iraq (IRQ)	Zain IQ (IRQAT)	3		YES	YES	YES	NO	NO
Ireland (IRL)	Meteor (IRLME)	1		YES	YES	YES	YES	NO
Ireland (IRL)	Vodafone (IRLEC)	1		YES	YES	YES	NO	NO
Isle of Man (IMN)	Manx Telekom (GBRMT)	2		YES	YES	NO	NO	NO
Isle of Man (IMN)	Sure (GBRGT)	1		YES	YES	YES	NO	NO
Israel (ISR)	HOT Mobile (ISRMS)	2		NO	YES	YES	YES	NO
Israel (ISR)	Partner / Orange (ISR01)	2		YES	YES	YES	NO	NO
Israel (ISR)	Pelephone (ISRPL)	2		NO	YES	YES	YES	YES
Italy (ITA)	Iliad Italy (ITAFM)	1		NO	YES	YES	NO	NO
Italy (ITA)	Telecom Italia (ITASI)	1		YES	NO	YES	YES	NO
Italy (ITA)	Vodafone / Omnitel (ITAOM)	1		YES	NO	YES	NO	NO
Ivory Coast (CIV)	MTN (CIVTL)	5		YES	YES	YES	NO	NO
Jamaica (JAM)	Cable and Wireless Jamaica Ltd (JAMCW)	5		YES	YES	YES	NO	NO
Jamaica (JAM)	Digicel (JAMDC)	4	Surcharge applies	YES	YES	YES	NO	NO
Japan (JPN)	DoCoMo (JPNDO)	3	No permanent	NO	YES	YES	YES	YES
Japan (JPN)	Softbank (JPNJP)	3		NO	YES	YES	NO	NO
Jersey (GBR)	Airtel Vodafone (GBRAJ)	2		YES	YES	YES	NO	NO
Jersey (JEY)	Sure (GBRGT)	1		YES	YES	YES	NO	NO
Jordan (JOR)	Umniah Mobile Company (JORUM)	4		YES	YES	YES	NO	NO
Jordan (JOR)	Zain (JORFL)	4		YES	YES	YES	NO	NO
Kazakhstan (KAZ)	Beeline (KAZKT)	3		YES	YES	YES	NO	NO
Kazakhstan (KAZ)	Tele2 (KAZ77)	1		YES	YES	YES	NO	NO
Kenya (KEN)	Airtel (KENKC)	5		YES	YES	NO	NO	NO
Kenya (KEN)	Safaricom (KENSA)	3		YES	YES	YES	NO	NO
Kenya (KEN)	Telekom Kenya Orange (KENTK)	5		YES	YES	NO	NO	NO
Kosovo (RKS)	IPKO (K0001)	3		YES	YES	NO	NO	NO
Kuwait (KWT)	KTC (KWTKT)	4		YES	YES	YES	NO	NO
Kuwait (KWT)	Wataniya Telecom (KWTNM)	4		YES	YES	NO	NO	NO
Kuwait (KWT)	Zain (KWTMT)	4		YES	YES	YES	YES	NO
Kyrgyzstan (KGZ)	MegaCom (KGZMC)	4		YES	YES	YES	NO	NO
Kyrgyzstan (KGZ)	NURTelecom (KGZNT)	3		YES	YES	YES	NO	NO
Kyrgyzstan (KGZ)	Sky Mobile (KGZ01)	3		YES	YES	YES	NO	NO
Laos (LAO)	BEELINE LAO (LAOTL)	2		YES	YES	NO	NO	NO
Latvia (LVA)	Bite (LVABT)	1		YES	YES	YES	NO	NO
Latvia (LVA)	LMT Gsm (LVALM)	1		YES	YES	YES	NO	YES
Latvia (LVA)	Tele2 (LVABC)	1		YES	YES	YES	YES	NO
Lebanon (LBN)	MIC1 Alfa (LBNFL)	SC1		YES	YES	YES	NO	NO
Lebanon (LBN)	MIC2 Touch (LBNLC)	SC1		YES	YES	NO	NO	NO
Liberia (LBR)	MTN (LBRLC)	4		YES	YES	YES	NO	NO
Liberia (LBR)	Orange (LBR07)	SC2		YES	YES	NO	NO	NO
Libya (LBY)	Al Madar Al Jadid (LBY01)	SC1		YES	YES	NO	NO	NO
Liechtenstein (LIE)	Orange (LIEVE)	1		YES	YES	YES	NO	NO
Liechtenstein (LIE)	Telecom Liechtenstein (LIEMK)	1		YES	YES	YES	NO	NO
Lithuania (LTU)	Bite Gsm (LTUMT)	1		YES	YES	YES	NO	NO
Lithuania (LTU)	Omnitel (LTUOM)	1		YES	NO	YES	NO	NO
Lithuania (LTU)	UAB Tele2 (LTU03)	1		YES	YES	YES	YES	NO
Luxembourg (LUX)	Orange (LUXVM)	1		YES	YES	YES	YES	NO
Luxembourg (LUX)	POST (LUXPT)	1		YES	NO	YES	YES	YES
Luxembourg (LUX)	Tango (LUXTG)	1		YES	YES	YES	YES	NO
Macao (MAC)	CTM (MACCT)	3		NO	YES	YES	YES	NO
Macao (MAC)	Hutchison (MACHT)	4		NO	NO	NO	NO	NO
Macedonia Republic of (MKD)	T-mobile / Makedonski Telekom (MKDMM)	4		YES	YES	YES	NO	NO
Macedonia Republic of (MKD)	Vip Operator (MKDNO)	4		YES	YES	YES	NO	NO
Madagascar (MDG)	Airtel (MDGCO)	5		YES	YES	YES	NO	NO
Madagascar (MDG)	TELMA (MDGTM)	SC4		YES	YES	NO	NO	NO
Malaysia (MYS)	Celcom (MYSCC)	2		YES	NO	YES	NO	NO
Malaysia (MYS)	Digi Telecom (MYSMT)	4		YES	NO	YES	NO	NO
Malaysia (MYS)	Maxis (MYSBC)	2		YES	NO	YES	NO	NO
Mali (MLI)	Orange Mali SA (MLI02)	7		YES	YES	YES	NO	NO
Malta (MLT)	Go Mobile (MLTGO)	1		YES	YES	YES	NO	NO
Malta (MLT)	Melita Mobile Ltd. (MLTMM)	1		YES	YES	YES	YES	YES
Malta (MLT)	Vodafone Malta (MLTTL)	1		YES	YES	YES	YES	NO
Martinique (MTQ)	Digicel Martinique (FRAF4)	1		YES	YES	NO	NO	NO

tech+ Coverage List World Q2 2023



Country	Network Name	Zone*	Roaming Restrictions	2G	3G	4G	5G	LTE-M
Mauritania (MRT)	Chinguitel (MRTCH)	5		YES	YES	NO	NO	NO
Mauritania (MRT)	Mattel (MRTMT)	5		YES	YES	NO	NO	NO
Mauritius (MUS)	Emtel (MUSEM)	5		YES	YES	YES	NO	NO
Mauritius (MUS)	MTML (MUSMT)	5		YES	YES	YES	NO	NO
Mauritius (MUS)	Orange (MUSCP)	5		YES	YES	YES	NO	NO
Mexico (MEX)	AT&T (Iusacell) (MEXIU)	4		NO	YES	YES	NO	YES
Mexico (MEX)	Telcel (MEXTL)	4		YES	YES	YES	NO	NO
Mexico (MEX)	Telefónica Móviles México (MEXMS)	4		NO	YES	YES	NO	NO
Moldova Republic of (MDA)	Moldcell (MDAMC)	3		YES	YES	NO	NO	NO
Moldova Republic of (MDA)	Moldtelecom (MDAUN)	3		YES	YES	YES	NO	NO
Moldova Republic of (MDA)	ORANGE (MDAVX)	3		YES	YES	YES	NO	NO
Monaco (MCO)	Monaco Telecom (MCOM2)	4		NO	YES	YES	YES	NO
Mongolia (MNG)	Mobicom (MNGMC)	4		YES	NO	YES	NO	NO
Mongolia (MNG)	Unitel (MNGMN)	3		YES	YES	NO	NO	NO
Montenegro (MNE)	Mtel (MNEMT)	3		YES	YES	YES	NO	NO
Montenegro (MNE)	Telenor (MNEPM)	3		YES	YES	YES	NO	NO
Montserrat Island (MSR)	Cable & Wireless (MSRCW)	5		YES	YES	YES	NO	NO
Morocco (MAR)	IAM (MARMI)	5		YES	YES	YES	NO	NO
Morocco (MAR)	Orange (Meditel) (MARMT)	5		YES	YES	YES	NO	NO
Mozambique (MOZ)	Mcel (MOZ01)	5		YES	YES	NO	NO	NO
Myanmar (MMR)	Myanmar Posts and Telecommunications (MMRPT)	4		YES	YES	YES	NO	NO
Myanmar (MMR)	Ooredoo (MMROM)	5		NO	YES	NO	NO	NO
Myanmar (MMR)	Telenor Myanmar (MMRTN)	5		YES	YES	NO	NO	NO
Nepal (NPL)	Ncell (NPLM2)	7		YES	YES	YES	NO	NO
Nepal (NPL)	Nepal Telecommunications (NPLNM)	SC4		YES	YES	NO	NO	NO
Netherlands (NLD)	KPN Telecom (NLDPT)	2		YES	NO	YES	YES	YES
Netherlands (NLD)	T-Mobile NL (NLDPN)	1		NO	YES	YES	NO	YES
Netherlands (NLD)	Vodafone (NLDLT)	1		YES	NO	YES	YES	YES
New Caledonia (NCL)	Mobilis (NCLPT)	SC4		YES	YES	NO	NO	NO
New Zealand (NZL)	NZC / 2 degrees (NZLNH)	3		NO	YES	YES	NO	NO
New Zealand (NZL)	Spark / Telecom New Zealand (NZLTM)	3		NO	YES	YES	NO	YES
New Zealand (NZL)	Vodafone New Zealand Ltd (NZLBS)	2		YES	YES	YES	NO	NO
Nicaragua (NIC)	Enitel (NICEN)	4		YES	YES	YES	NO	NO
Nicaragua (NIC)	Telefonia Celular de Nicaragua (NICMS)	4		YES	YES	NO	NO	NO
Niger (NER)	Airtel (NERCT)	5		YES	YES	NO	NO	NO
Nigeria (NGA)	9Mobile (EMTS) (NGAEM)	4		YES	YES	NO	NO	NO
Nigeria (NGA)	Airtel Networks Limited (NGAET)	5		YES	YES	NO	NO	NO
Nigeria (NGA)	MTN-NG (NGAMN)	4		YES	YES	YES	NO	NO
Norway (NOR)	NetCom / Telia Sonera (NORNC)	1		YES	NO	YES	NO	NO
Norway (NOR)	Telenor (NORTM)	1		YES	YES	YES	NO	YES
Oman, Sultanate of (OMN)	Nawras / Ooredoo (OMNNT)	5		YES	YES	YES	NO	NO
Oman, Sultanate of (OMN)	OMAN MOBILE (OMNGT)	5		YES	YES	YES	YES	NO
Over the air (N/A)	AeroMobile (NORAM)	7		YES	YES	NO	NO	NO
Over the sea (N/A)	Telecom (BMU01)	SC2		YES	YES	YES	NO	NO
Over the sea (N/A)	Telecom Italia (ITAGT)	SC4		YES	NO	NO	NO	NO
Over the sea (N/A)	Telenor Maritime (NORMC)	7		YES	NO	YES	NO	NO
Over the sea (N/A)	Vodafone Malta Maritime (MLTMA)	SC1		YES	NO	NO	NO	NO
Pakistan (PAK)	Mobilink (PAKMK)	3		YES	YES	YES	NO	NO
Pakistan (PAK)	Telenor (PAKTP)	3		YES	YES	YES	NO	NO
Pakistan (PAK)	Ufone (PAKUF)	3		YES	YES	NO	NO	NO
Palestine (PSE)	Jawwal (Paltel) (PSEJE)	3		YES	YES	NO	NO	NO
Palestine (PSE)	Wataniya Palestine Mobile (PSEWM)	3		YES	YES	NO	NO	NO
Panama (PAN)	Cable & Wireless Panama (PANCW)	4		YES	YES	NO	NO	NO
Panama (PAN)	Digicel (PANDC)	4		NO	YES	YES	NO	NO
Panama (PAN)	Tigo (PANMS)	4		YES	YES	NO	NO	NO
Papua New Guinea (PNG)	Digicel PNG (PNGDP)	5		YES	YES	NO	NO	NO
Paraguay (PRY)	Claro (PRYHT)	4		YES	YES	YES	NO	NO
Paraguay (PRY)	Tigo (PRYTC)	4		YES	YES	YES	NO	NO
Peru (PER)	Claro Peru (PERTM)	4		YES	YES	NO	NO	NO
Peru (PER)	Entel Peru (PERN3)	4		YES	YES	YES	NO	NO
Peru (PER)	Telefonica (PERMO)	4		YES	YES	YES	NO	NO
Philippines (PHL)	Globe Telecom (PHLGT)	3		YES	YES	YES	YES	NO
Philippines (PHL)	Smart (PHLSR)	3		YES	YES	YES	NO	NO
Poland (POL)	Orange (POL03)	1		YES	YES	YES	NO	NO
Poland (POL)	P4 (POLP4)	1		YES	YES	YES	NO	NO
Poland (POL)	Plus Gsm (POLKM)	1		YES	YES	YES	YES	NO
Poland (POL)	T-Mobile (POL02)	1		YES	YES	YES	YES	NO
Portugal (PRT)	MEO (TMN) (PRTTM)	1		YES	YES	YES	NO	NO
Portugal (PRT)	NOS (PRTOP)	1		YES	YES	YES	YES	NO
Portugal (PRT)	Vodafone (PRTTL)	1		NO	NO	YES	YES	NO
Puerto Rico (PRI)	Puerto Rico Tele Company CLARO (PRICL)	5		NO	YES	YES	NO	NO
Puerto Rico (PRI)	T-mobile (USAW6)	2		YES	NO	YES	NO	NO
Qatar (QAT)	Ooredoo (QATQT)	4		YES	YES	YES	YES	NO
Qatar (QAT)	Vodafone (QATB1)	4		YES	YES	YES	NO	NO
Reunion (REU)	SFR (FRARE)	4		YES	YES	YES	NO	NO
Romania (ROU)	Orange Romania (ROMMR)	1		YES	YES	YES	YES	NO
Romania (ROU)	Telekom Romania (ROMCS)	1		YES	NO	YES	NO	NO
Romania (ROU)	Vodafone (ROMMF)	1		YES	YES	YES	YES	NO
Russia (RUS)	Beeline (RUSBD)	2		YES	YES	YES	NO	NO
Russia (RUS)	MTS (RUS01)	2		YES	YES	YES	NO	NO
Rwanda (RWA)	Airtel Rwanda (Tigo) (RWATG)	5		YES	YES	NO	NO	NO
Rwanda (RWA)	Airtel Rwanda Limited (RWAAR)	5		YES	YES	NO	NO	NO
Rwanda (RWA)	MTN (RWAMN)	4		YES	YES	YES	NO	NO
Saudi Arabia (SAU)	Mobily / Etisalat (SAUET)	2		YES	YES	YES	NO	NO
Saudi Arabia (SAU)	Zain MTC (SAUZN)	5		YES	YES	YES	YES	NO
Senegal (SEN)	Sentel GSM (SENSG)	5		YES	YES	YES	NO	NO
Serbia (SRB)	Telekom Srbija (YUGTS)	3		YES	YES	YES	NO	NO
Serbia (SRB)	Telenor (YUGMT)	3		YES	YES	YES	NO	NO
Serbia (SRB)	Vip (SRBNO)	3		YES	YES	YES	NO	NO
Seychelles (SYC)	Cable & Wireless (SYCCW)	5		YES	YES	YES	NO	NO

tech+ Coverage List World Q2 2023



Country	Network Name	Zone*	Roaming Restrictions	2G	3G	4G	5G	LTE-M
Sierra Leone (SLE)	AFR LINTEL (SLEAC)	5		YES	YES	YES	NO	NO
Sierra Leone (SLE)	Orange (SLECT)	SC1		YES	YES	YES	NO	NO
Singapore (SGP)	M1 (SGPM1)	3		NO	YES	YES	NO	NO
Singapore (SGP)	SingTel Mobile (SGPST)	3		NO	YES	YES	YES	NO
Singapore (SGP)	StarHub (SGPSH)	3		NO	YES	YES	YES	NO
Slovakia (SVK)	Orange (SVKGT)	1		YES	YES	YES	NO	NO
Slovakia (SVK)	Telefonica Slovakia, s.r.o (SVK02)	1		YES	YES	YES	YES	NO
Slovakia (SVK)	Telekom (SVKET)	1		YES	YES	YES	NO	NO
Slovenia (SVN)	Mobitel (SVNMT)	1		YES	NO	YES	YES	NO
Slovenia (SVN)	SI.Mobil (SVNSM)	1		YES	YES	YES	YES	Presumed
Slovenia (SVN)	Telemach Mobile (SVNMG)	1		YES	YES	YES	YES	NO
South Africa (ZAF)	MTN (ZAFMN)	4		YES	YES	NO	NO	NO
South Africa (ZAF)	Vodacom (ZAFVC)	3		YES	YES	YES	NO	NO
South Korea (KOR)	KT (KORKF)	2		NO	YES	YES	YES	NO
South Korea (KOR)	SK Telecom (KORSK)	2		NO	YES	YES	YES	NO
South Sudan (SDN)	MTN (SSDMN)	5		YES	YES	NO	NO	NO
Spain (ESP)	Orange (ESPRT)	1		YES	YES	YES	YES	YES
Spain (ESP)	Telefonica Movistar (ESPTTE)	1		YES	YES	YES	NO	NO
Spain (ESP)	Vodafone (ESPAT)	1		YES	YES	YES	YES	NO
Spain (ESP)	Xfera (ESPXF)	1		YES	YES	YES	NO	NO
Sri Lanka (LKA)	Etisalat (LKACTION)	5		YES	YES	NO	NO	NO
Sri Lanka (LKA)	Hutchison (LKAHT)	5		YES	YES	YES	NO	NO
Sri Lanka (LKA)	Mobitel (LKA71)	5		YES	YES	YES	NO	NO
St Kitts Island (KNA)	Cable & Wireless (KNACW)	5		YES	YES	YES	NO	NO
St Lucia Island (LCA)	Cable & Wireless (LCACW)	5		YES	YES	YES	NO	NO
St Vincent Island (VCT)	Cable & Wireless (VCTCW)	5		YES	YES	YES	NO	NO
St. Maarten (SXM)	TelCell (ANTTC)	5		NO	NO	YES	NO	NO
Sudan (SDN)	MTN Sudan (SDNBT)	4		YES	YES	NO	NO	NO
Suriname (SUR)	Digicel (SURDC)	4		YES	YES	YES	NO	NO
Sweden (SWE)	Tele2 Sweden (SWEIQ)	1		YES	YES	YES	YES	YES
Sweden (SWE)	Telenor Sverige (SWEET)	1		NO	NO	NO	NO	Presumed
Sweden (SWE)	TeliaSonera Mobile Networks (SWETR)	1		NO	NO	NO	NO	NO
Switzerland (CHE)	Orange / Salt (CHEOR)	1		NO	YES	YES	YES	NO
Switzerland (CHE)	Sunrise (CHEDX)	1		NO	YES	YES	YES	NO
Switzerland (CHE)	Swisscom, Swisscom FL (CHEC1)	1		NO	YES	YES	YES	YES
Taiwan (TWN)	Chunghwa Telecom (TWNLD)	3		NO	YES	YES	YES	YES
Taiwan (TWN)	Far EasTone (TWNFE)	3		NO	YES	YES	YES	NO
Taiwan (TWN)	Taiwan Mobile (TWNPC)	3		NO	YES	YES	YES	NO
Tajikistan (TJK)	Babilon-Mobile (TJKBM)	3		YES	YES	YES	NO	NO
Tajikistan (TJK)	Indigo Gsm (TJKIT)	3		YES	YES	NO	NO	NO
Tajikistan (TJK)	Tacom (TJK91)	3		YES	YES	NO	NO	NO
Tanzania (TZA)	Airtel (TZACT)	5		YES	YES	YES	NO	NO
Tanzania (TZA)	MIC Tanzania (TZAMB)	5		YES	YES	NO	NO	NO
Tanzania (TZA)	Vodacom (TZAVC)	5		YES	YES	NO	NO	NO
Thailand (THA)	DTAC (THADT)	2		YES	YES	YES	NO	NO
Thailand (THA)	DTAC (THAWP)	2		NO	YES	NO	NO	NO
Thailand (THA)	Real Future (THACA)	2		NO	YES	YES	YES	NO
Thailand (THA)	Real Future (THACT)	2		NO	YES	NO	NO	NO
Thailand (THA)	TH AIS (THAWN)	3		NO	YES	YES	YES	NO
Tonga (TON)	Digicel Tonga (TONDP)	5		YES	YES	NO	NO	NO
Trinidad and Tobago (TTO)	Digicel (TTODL)	4		YES	YES	YES	NO	NO
Tunisia (TUN)	Ooredoo (TUNTA)	3		YES	YES	YES	NO	NO
Tunisia (TUN)	Orange (TUNOR)	3		YES	YES	YES	NO	NO
Turkey (TUR)	AVEA (TURIS)	2	No permanent	YES	YES	YES	NO	NO
Turkey (TUR)	Turkcell (TURTC)	2	No permanent	YES	YES	YES	YES	NO
Turkey (TUR)	Vodafone (TURTS)	2	No permanent	YES	YES	YES	NO	NO
Turks Island (TCA)	Cable & Wireless (TCACW)	5		YES	YES	YES	NO	NO
Uganda (UGA)	Airtel Uganda (UGACE)	5		YES	YES	NO	NO	NO
Uganda (UGA)	MTN (UGAMN)	3		YES	YES	YES	NO	NO
Uganda (UGA)	Orange Uganda Limited (UGAOR)	3		YES	YES	YES	NO	NO
Uganda (UGA)	Smart (UGASU)	7		YES	YES	NO	NO	NO
Ukraine (UKR)	Kyivstar (UKRKS)	2		YES	YES	YES	NO	NO
Ukraine (UKR)	Life (UKRAS)	2		YES	YES	YES	NO	NO
Ukraine (UKR)	MTS (UKRUM)	2		YES	YES	YES	NO	NO
United Arab Emirates (ARE)	Etisalat (ARETC)	4	No permanent	NO	YES	YES	YES	NO
United Kingdom (GBR)	EE (T-Mobile UK) (GBRME)	1		YES	YES	YES	YES	NO
United Kingdom (GBR)	O2 UK (GBRCN)	1		YES	YES	YES	YES	NO
United Kingdom (GBR)	Vodafone (GBRVF)	1		YES	YES	YES	YES	NO
Uruguay (URY)	Claro (CTI) (URYAM)	5		YES	YES	YES	NO	NO
Uruguay (URY)	Movistar (URYTM)	5		YES	YES	NO	NO	NO
USA (USA)	AT&T (USACG)	2	Restricted access**	NO	NO	YES	NO	YES
USA (USA)	T-Mobile (USAW6)	2	Restricted access**	YES	NO	YES	NO	YES
Uzbekistan (UZB)	Beeline Uz (UZBDU)	4		YES	YES	YES	NO	NO
Uzbekistan (UZB)	Ucell (UZB05)	4		YES	YES	NO	NO	NO
Uzbekistan (UZB)	UMS LLC (UZB07)	4		YES	YES	YES	NO	NO
Vanuatu (VUT)	Digicel Vanuatu (VUTDP)	5		YES	YES	NO	NO	NO
Venezuela (VEN)	Movistar (VENMS)	5		YES	YES	NO	NO	NO
Vietnam (VNM)	Viettel (VNMVT)	4		YES	YES	YES	YES	NO
Vietnam (VNM)	Vinaphone (VNMVI)	4		YES	YES	YES	NO	NO
Yemen (YEM)	SabaFon (YEMSA)	SC2		YES	NO	NO	NO	NO
Yemen (YEM)	Spacotel (YEMSP)	4		YES	NO	NO	NO	NO
Zambia (ZMB)	MTN (ZMB02)	5		YES	YES	NO	NO	NO
Zimbabwe (ZWE)	NetOne (ZWEN1)	5		YES	YES	NO	NO	NO

* Zone 1 (EU + Switzerland, UK, Iceland, Norway)
 ** Not more than 30% of total M2M/ToT traffic with on AT&T's networks in the US, as measured in relation to global total traffic. T-Mobile applies restricted access to its network. Connection with significant volumes will need to be preapproved.

Country	Network Name	Zone*	Roaming Restrictions	2G	3G	4G	5G	LTE-M
Austria (AUT)	A1 (AUTPT)	1		YES	YES	YES	YES	YES
Austria (AUT)	T-Mobile (AUTMM)	1		YES	YES	YES	YES	YES
Belgium (BEL)	Base (BELKO)	1		YES	YES	YES	NO	Presumed
Belgium (BEL)	Orange (BELMO)	1		YES	YES	YES	NO	YES
Belgium (BEL)	Proximus (BELTB)	1		YES	YES	YES	YES	NO
Bulgaria (BGR)	M-Tel Gsm (BGR01)	1		YES	YES	YES	YES	NO
Bulgaria (BGR)	Telenor / Globul (BGRCM)	1		YES	YES	YES	YES	NO
Bulgaria (BGR)	Vivacom (BGRVA)	1		YES	YES	YES	YES	NO
Croatia (HRV)	T-Mobile Croatia (HRVCN)	1		YES	YES	YES	NO	NO
Croatia (HRV)	Tele2/Telemach (HRVT2)	1		YES	YES	YES	NO	NO
Croatia (HRV)	VIPnet (HRVVI)	1		YES	YES	YES	YES	NO
Cyprus (CYP)	CytaMobile (CYPCT)	1		YES	YES	YES	YES	NO
Cyprus (CYP)	EPIC / MTN (CYPSC)	1		YES	YES	YES	YES	NO
Cyprus (CYP)	PrimeTel (CYPPT)	1		NO	YES	YES	NO	NO
Czech Republic (CZE)	O2 (CZEET)	1		YES	YES	YES	YES	NO
Czech Republic (CZE)	T-Mobile (CZERM)	1		YES	NO	YES	YES	NO
Czech Republic (CZE)	Vodafone (CZECM)	1		YES	NO	YES	YES	NO
Denmark (DNK)	Nuuday A/S(TDC) (DNKTD)	1		YES	NO	YES	YES	NO
Denmark (DNK)	Telenor A/S (DNKDM)	1		YES	YES	YES	NO	YES
Denmark (DNK)	Telia Mobile (DNKIA)	1		YES	YES	YES	NO	YES
Estonia (EST)	AS Emt (ESTEM)	1		YES	YES	YES	NO	NO
Estonia (EST)	Elisa Eesti (ESTRE)	1		YES	YES	NO	NO	NO
Estonia (EST)	Tele2 Eesti AS (ESTRB)	1		YES	YES	YES	NO	NO
Finland (FIN)	DNA (FIN2G)	1		YES	YES	YES	NO	YES
Finland (FIN)	Elisa (FINRL)	1		YES	YES	YES	YES	YES
Finland (FIN)	GSM Aland (FINAM)	1		YES	YES	YES	YES	NO
Finland (FIN)	Sonera (FINTF)	1		YES	YES	YES	NO	NO
France (FRA)	Bouygues Telecom (FRAF3)	1		YES	YES	YES	YES	NO
France (FRA)	Free Mobile (FRAF4)	1		NO	YES	YES	NO	NO
France (FRA)	Orange (FRAF1)	1		YES	YES	YES	YES	YES
France (FRA)	SFR (FRAF2)	1		YES	YES	YES	YES	NO
French Guyana (GUF)	Digicel French Guyana (FRAF4)	1		YES	YES	NO	NO	NO
French West Indies (FRA)	Digicel (FRAF4)	1		YES	YES	NO	NO	NO
Germany (DEU)	T-Mobile (DEUD1)	1		YES	NO	YES	YES	YES
Germany (DEU)	Telefonica O2 (DEUE1)	1		YES	NO	YES	NO	Presumed
Germany (DEU)	VODAFONE D2 (DEUD2)	1		YES	NO	YES	YES	YES
Greece (GRC)	T-mobile / Cosmote (GRCCO)	1		YES	NO	YES	YES	NO
Greece (GRC)	Vodafone (GRCPF)	1		YES	YES	YES	NO	NO
Greece (GRC)	Wind Hellas (GRCSH)	1		YES	YES	YES	YES	NO
Guernsey (GGY)	Sure (GBRGT)	1		YES	YES	YES	NO	NO
Hungary (HUN)	T-Mobile (HUNH2)	1		YES	YES	YES	YES	NO
Hungary (HUN)	Telenor (HUNH1)	1		YES	YES	YES	NO	NO
Hungary (HUN)	Vodafone (HUNVR)	1		YES	YES	YES	YES	NO
Iceland (ISL)	Nova (ISLNO)	1		NO	YES	YES	YES	NO
Iceland (ISL)	Siminn (ISLPS)	1		YES	YES	YES	YES	Presumed
Iceland (ISL)	Vodafone / Fjarskipti (ISLTL)	1		YES	YES	YES	NO	NO
Ireland (IRL)	Meteor (IRLME)	1		YES	YES	YES	YES	NO
Ireland (IRL)	Vodafone (IRLEEC)	1		YES	YES	YES	NO	NO
Isle of Man (IMN)	Sure (GBRGT)	1		YES	YES	YES	NO	NO
Italy (ITA)	Iliad Italy (ITAFM)	1		NO	YES	YES	NO	NO
Italy (ITA)	Telecom Italia (ITASI)	1		YES	NO	YES	YES	NO
Italy (ITA)	Vodafone / Omnitel (ITAOM)	1		YES	NO	YES	NO	NO
Jersey (JEY)	Sure (GBRGT)	1		YES	YES	YES	NO	NO
Kazakhstan (KAZ)	Tele2 (KAZ77)	1		YES	YES	YES	NO	NO
Latvia (LVA)	Bite (LVABT)	1		YES	YES	YES	NO	NO
Latvia (LVA)	LMT Gsm (LVALM)	1		YES	YES	YES	NO	YES
Latvia (LVA)	Tele2 (LVABC)	1		YES	YES	YES	YES	NO
Liechtenstein (LIE)	Orange (LIEVE)	1		YES	YES	YES	NO	NO
Liechtenstein (LIE)	Telecom Liechtenstein (LIEMK)	1		YES	YES	YES	NO	NO
Lithuania (LTU)	Bite Gsm (LTUMT)	1		YES	YES	YES	NO	NO
Lithuania (LTU)	Omnitel (LTUOM)	1		YES	NO	YES	NO	NO
Lithuania (LTU)	UAB Tele2 (LTU03)	1		YES	YES	YES	YES	NO
Luxembourg (LUX)	Orange (LUXVM)	1		YES	YES	YES	YES	NO
Luxembourg (LUX)	POST (LUXPT)	1		YES	NO	YES	YES	YES
Luxembourg (LUX)	Tango (LUXTG)	1		YES	YES	YES	YES	NO
Malta (MLT)	Go Mobile (MLTGO)	1		YES	YES	YES	NO	NO
Malta (MLT)	Melita Mobile Ltd. (MLTMM)	1		YES	YES	YES	YES	YES
Malta (MLT)	Vodafone Malta (MLTTL)	1		YES	YES	YES	YES	NO
Martinique (MTQ)	Digicel Martinique (FRAF4)	1		YES	YES	NO	NO	NO
Netherlands (NLD)	T-Mobile NL (NLDPN)	1		NO	YES	YES	NO	YES
Netherlands (NLD)	Vodafone (NLDLT)	1		YES	NO	YES	YES	YES
Norway (NOR)	NetCom / Telia Sonera (NORNC)	1		YES	NO	YES	NO	NO
Norway (NOR)	Telenor (NORTM)	1		YES	YES	YES	NO	YES
Poland (POL)	Orange (POL03)	1		YES	YES	YES	NO	NO
Poland (POL)	P4 (POLP4)	1		YES	YES	YES	NO	NO
Poland (POL)	Plus Gsm (POLKM)	1		YES	YES	YES	YES	NO
Poland (POL)	T-Mobile (POL02)	1		YES	YES	YES	YES	NO
Portugal (PRT)	MEO (TMN) (PRTTM)	1		YES	YES	YES	NO	NO
Portugal (PRT)	NOS (PRTOP)	1		YES	YES	YES	YES	NO
Portugal (PRT)	Vodafone (PRTTL)	1		NO	NO	YES	YES	NO
Romania (ROU)	Orange Romania (ROMMR)	1		YES	YES	YES	YES	NO
Romania (ROU)	Telekom Romania (ROMCS)	1		YES	NO	YES	NO	NO
Romania (ROU)	Vodafone (ROMMF)	1		YES	YES	YES	YES	NO
Slovakia (SVK)	Orange (SVKGT)	1		YES	YES	YES	NO	NO
Slovakia (SVK)	Telefonica Slovakia, s.r.o (SVK02)	1		YES	YES	YES	YES	NO
Slovakia (SVK)	Telekom (SVKET)	1		YES	YES	YES	NO	NO
Slovenia (SVN)	Mobitel (SVNMT)	1		YES	NO	YES	YES	NO
Slovenia (SVN)	SI.Mobil (SVNSM)	1		YES	YES	YES	YES	Presumed
Slovenia (SVN)	Telemach Mobile (SVNVG)	1		YES	YES	YES	YES	NO
Spain (ESP)	Orange (ESPRT)	1		YES	YES	YES	YES	YES

Country	Network Name	Zone*	Roaming Restrictions	2G	3G	4G	5G	LTE-M
Spain (ESP)	Telefonica Movistar (ESPTe)	1		YES	YES	YES	NO	NO
Spain (ESP)	Vodafone (ESPAT)	1		YES	YES	YES	YES	NO
Spain (ESP)	Xfera (ESPXF)	1		YES	YES	YES	NO	NO
Sweden (SWE)	Tele2 Sweden (SWEIQ)	1		YES	YES	YES	YES	YES
Sweden (SWE)	Telenor Sverige (SWEET)	1		NO	NO	NO	NO	Presumed
Sweden (SWE)	TeliaSonera Mobile Networks (SWETR)	1		NO	NO	NO	NO	NO
Switzerland (CHE)	Orange / Salt (CHEOR)	1		NO	YES	YES	YES	NO
Switzerland (CHE)	Sunrise (CHEDX)	1		NO	YES	YES	YES	NO
Switzerland (CHE)	Swisscom, Swissom FL (CHEC1)	1		NO	YES	YES	YES	YES
United Kingdom (GBR)	EE (T-Mobile UK) (GBRME)	1		YES	YES	YES	YES	NO
United Kingdom (GBR)	O2 UK (GBRCN)	1		YES	YES	YES	YES	NO
United Kingdom (GBR)	Vodafone (GBRVF)	1		YES	YES	YES	YES	NO
Albania (ALB)	Vodafone Albania (ALBVF)	2		YES	YES	YES	NO	NO
Andorra (AND)	Mobiland (ANDMA)	2		YES	YES	NO	NO	NO
Bosnia and Herzegovina (BIH)	HT Eronet (BIHER)	2		YES	YES	YES	NO	NO
Canada (CAN)	Bell Mobility inc. (CANBM)	2	No permanent	NO	YES	YES	YES	YES
Canada (CAN)	TELUS (CANTS)	2	No permanent	NO	YES	YES	YES	NO
Georgia (GEO)	GeoCell (GEOGC)	2		YES	YES	YES	NO	NO
Hong Kong (HKG)	H3G Hong Kong (HKGH3)	2		NO	YES	YES	NO	NO
Hong Kong (HKG)	PCCW (HKGTC) (HKG M3)	2		NO	YES	NO	NO	NO
Isle of Man (IMN)	Manx Telekom (GBRMT)	2		YES	YES	NO	NO	NO
Israel (ISR)	HOT Mobile (ISRMS)	2		NO	YES	YES	YES	NO
Israel (ISR)	Partner / Orange (ISR01)	2		YES	YES	YES	NO	NO
Israel (ISR)	Pelephone (ISRPL)	2		NO	YES	YES	YES	YES
Jersey (GBR)	Airtel Vodafone (GBRAJ)	2		YES	YES	YES	NO	NO
Laos (LAO)	BEELINE LAO (LAOTL)	2		YES	YES	NO	NO	NO
Malaysia (MYS)	Celcom (MYSCC)	2		YES	NO	YES	NO	NO
Malaysia (MYS)	Maxis (MYSBC)	2		YES	NO	YES	NO	NO
Netherlands (NLD)	KPN Telecom (NLDPT)	2		YES	NO	YES	YES	YES
New Zealand (NZL)	Vodafone New Zealand Ltd (NZLBS)	2		YES	YES	YES	NO	NO
Puerto Rico (PRI)	T-mobile (USAW6)	2		YES	NO	YES	NO	NO
Russia (RUS)	BeeLine (RUSBD)	2		YES	YES	YES	NO	NO
Russia (RUS)	MTS (RUS01)	2		YES	YES	YES	NO	NO
Saudi Arabia (SAU)	Mobily / Etsalat (SAUET)	2		YES	YES	YES	NO	NO
South Korea (KOR)	KT (KORKF)	2		NO	YES	YES	YES	NO
South Korea (KOR)	SK Telecom (KORSK)	2		NO	YES	YES	YES	NO
Thailand (THA)	DTAC (THADT)	2		YES	YES	YES	NO	NO
Thailand (THA)	DTAC (THAWP)	2		NO	YES	NO	NO	NO
Thailand (THA)	Real Future (THACA)	2		NO	YES	YES	YES	NO
Thailand (THA)	Real Future (THACT)	2		NO	YES	NO	NO	NO
Turkey (TUR)	AVEA (TURIS)	2	No permanent	YES	YES	YES	NO	NO
Turkey (TUR)	Turkcell (TURTC)	2	No permanent	YES	YES	YES	YES	NO
Turkey (TUR)	Vodafone (TURTS)	2	No permanent	YES	YES	YES	NO	NO
Ukraine (UKR)	Kyivstar (UKRKS)	2		YES	YES	YES	NO	NO
Ukraine (UKR)	Life (UKRAS)	2		YES	YES	YES	NO	NO
Ukraine (UKR)	MTS (UKRUM)	2		YES	YES	YES	NO	NO
USA (USA)	AT&T (USACG)	2	Restricted access**	NO	NO	YES	NO	YES
USA (USA)	T-Mobile (USAW6)	2	Restricted access**	YES	NO	YES	NO	YES
Albania (ALB)	AMC / T-mobile (ALBAM)	3		YES	YES	NO	NO	NO
Albania (ALB)	Eagle Mobile (ALBEM)	3		YES	YES	NO	NO	NO
Armenia (ARM)	Orange Armenia CJSC (ARMOR)	3		YES	YES	NO	NO	NO
Armenia (ARM)	Telecom Armenia (ARM01)	3		YES	YES	YES	NO	NO
Armenia (ARM)	Vivacell (ARM05)	3		YES	YES	NO	NO	NO
Australia (AUS)	Telstra MobileNet (AUSTA)	3	Special SIM type required	NO	YES	YES	NO	NO
Australia (AUS)	Vodafone (AUSVF)	3	Special SIM type required	NO	YES	YES	YES	NO
Bangladesh (BGD)	Banglalink (BGDBL)	3		YES	YES	NO	NO	NO
Bangladesh (BGD)	Grameenphone (BGDGP)	3		YES	YES	NO	NO	NO
Belarus Rep of (BLR)	BEST / Life : (BLRBT)	3		YES	YES	YES	NO	NO
Belarus Rep of (BLR)	MTS (BLR02)	3		YES	YES	YES	NO	NO
Belarus Rep of (BLR)	VELCOM (BLRMD)	3		YES	YES	YES	NO	NO
Bermuda (BMU)	Bermuda Digital (BMUBD)	3		YES	YES	NO	NO	NO
Bosnia and Herzegovina (BIH)	BIH (BIHPT)	3		YES	YES	YES	NO	NO
Bosnia and Herzegovina (BIH)	m:tel (BIHMS)	3		YES	YES	YES	NO	NO
Brazil (BRA)	VIVO Participacoes S.A. (BRATC)	3	No permanent	YES	YES	YES	YES	NO
Cambodia (KHM)	Cellcard (KHMGM)	3		YES	YES	YES	NO	NO
Cambodia (KHM)	Metfone (KHMVC)	3		YES	YES	YES	NO	NO
China (CHN)	China Mobile (CHNCT)	3	Special SIM type required	YES	NO	YES	YES	NO
China (CHN)	China Unicom (CHNCU)	3	Special SIM type required	NO	YES	YES	NO	NO
Congo Rep of (COG)	MTN (COGLB)	3		YES	YES	NO	NO	NO
Egypt (EGY)	Etsalat (EGYEM)	3		YES	YES	YES	NO	NO
Faroe Islands (FRO)	Faroe Telecom (FROFT)	3		YES	YES	YES	NO	NO
Faroe Islands (FRO)	Kall Vodafone (FROKA)	3		YES	YES	NO	NO	NO
Georgia (GEO)	Beeline (GEO MT)	3		YES	YES	YES	NO	NO
Ghana (GHA)	Vodafone Ghana (GHAGT)	3		YES	YES	YES	NO	NO
Greenland (GRL)	Telegreenland 900 (GRLTG)	3		YES	YES	YES	NO	NO
Hong Kong (HKG)	China Mobile / Peoples (HKGPP)	3		YES	YES	YES	NO	NO
Hong Kong (HKG)	Smartone (HKGSM)	3		NO	YES	NO	NO	NO
Indonesia (IDN)	Telekomsel (IDNTS)	3		YES	YES	YES	NO	NO
Iraq (IRQ)	Asiacell (IRQAC)	3		YES	YES	YES	NO	NO
Iraq (IRQ)	Zain IQ (IRQAT)	3		YES	YES	YES	NO	NO
Japan (JPN)	DoCoMo (JPNDO)	3	No permanent	NO	YES	YES	YES	YES
Japan (JPN)	Softbank (JPNJP)	3		NO	YES	YES	NO	NO
Kazakhstan (KAZ)	Beeline (KAZKT)	3		YES	YES	YES	NO	NO
Kenya (KEN)	Safaricom (KENSA)	3		YES	YES	YES	NO	NO
Kosovo (RKS)	IPKO (K0001)	3		YES	YES	NO	NO	NO
Kyrgyzstan (KGZ)	NURTelecom (KGZNT)	3		YES	YES	YES	NO	NO
Kyrgyzstan (KGZ)	Sky Mobile (KGZ01)	3		YES	YES	YES	NO	NO
Macao (MAC)	CTM (MACCT)	3		NO	YES	YES	YES	NO
Moldova Republic of (MDA)	Moldcell (MDAMC)	3		YES	YES	NO	NO	NO
Moldova Republic of (MDA)	Moldtelecom (MDAUN)	3		YES	YES	YES	NO	NO

Country	Network Name	Zone*	Roaming Restrictions	2G	3G	4G	5G	LTE-M
Moldova Republic of (MDA)	ORANGE (MDAVX)	3		YES	YES	YES	NO	NO
Mongolia (MNG)	Unitel (MNGMN)	3		YES	YES	NO	NO	NO
Montenegro (MNE)	Mtel (MNEMT)	3		YES	YES	YES	NO	NO
Montenegro (MNE)	Telenor (MNEPM)	3		YES	YES	YES	NO	NO
New Zealand (NZL)	NZC / 2 degrees (NZLNH)	3		NO	YES	YES	NO	NO
New Zealand (NZL)	Spark / Telecom New Zealand (NZLTM)	3		NO	YES	YES	NO	YES
Pakistan (PAK)	Mobilink (PAKMK)	3		YES	YES	YES	NO	NO
Pakistan (PAK)	Telenor (PAKTP)	3		YES	YES	YES	NO	NO
Pakistan (PAK)	Ufone (PAKUF)	3		YES	YES	NO	NO	NO
Palestine (PSE)	Jawwal (Paltel) (PSEJE)	3		YES	YES	NO	NO	NO
Palestine (PSE)	Wataniya Palestine Mobile (PSEWM)	3		YES	YES	NO	NO	NO
Philippines (PHL)	Globe Telecom (PHLGT)	3		YES	YES	YES	YES	NO
Philippines (PHL)	Smart (PHLSR)	3		YES	YES	YES	NO	NO
Serbia (SRB)	Telekom Srbija (YUGTS)	3		YES	YES	YES	NO	NO
Serbia (SRB)	Telenor (YUGMT)	3		YES	YES	YES	NO	NO
Serbia (SRB)	Vip (SRBNO)	3		YES	YES	YES	NO	NO
Singapore (SGP)	M1 (SGPM1)	3		NO	YES	YES	NO	NO
Singapore (SGP)	SingTel Mobile (SGPST)	3		NO	YES	YES	YES	NO
Singapore (SGP)	StarHub (SGPSH)	3		NO	YES	YES	YES	NO
South Africa (ZAF)	Vodacom (ZAFVC)	3		YES	YES	YES	NO	NO
Taiwan (TWN)	Chungwa Telecom (TWNLD)	3		NO	YES	YES	YES	YES
Taiwan (TWN)	Far EasTone (TWNFE)	3		NO	YES	YES	YES	NO
Taiwan (TWN)	Taiwan Mobile (TWNPC)	3		NO	YES	YES	YES	NO
Tajikistan (TJK)	Babilon-Mobile (TJKBM)	3		YES	YES	YES	NO	NO
Tajikistan (TJK)	Indigo Gsm (TJKIT)	3		YES	YES	NO	NO	NO
Tajikistan (TJK)	Tacom (TJK91)	3		YES	YES	NO	NO	NO
Thailand (THA)	TH AIS (THAWN)	3		NO	YES	YES	YES	NO
Tunisia (TUN)	Ooredoo (TUNTA)	3		YES	YES	YES	NO	NO
Tunisia (TUN)	Orange (TUNOR)	3		YES	YES	YES	NO	NO
Uganda (UGA)	MTN (UGAMN)	3		YES	YES	YES	NO	NO
Uganda (UGA)	Orange Uganda Limited (UGAOR)	3		YES	YES	YES	NO	NO
Afghanistan (AFG)	Afghan Wireless (AFGAW)	4		YES	YES	NO	NO	NO
Afghanistan (AFG)	MTN (AFGAR)	4		YES	YES	NO	NO	NO
Afghanistan (AFG)	Roshan (AFGTD)	4		YES	YES	NO	NO	NO
Argentina (ARG)	Claro (ARGCM)	4		YES	YES	YES	NO	NO
Argentina (ARG)	Personal (ARGTP)	4		YES	YES	YES	NO	NO
Argentina (ARG)	Telefonica (ARGTM)	4		YES	YES	YES	NO	NO
Aruba (ABW)	Digicel (ABWDC)	4		YES	YES	NO	NO	NO
Aruba (ABW)	Setar (ABWSE)	4		YES	YES	YES	NO	NO
Azerbaijan Rep of (AZE)	Azercell (AZEAC)	4		YES	YES	NO	NO	NO
Azerbaijan Rep of (AZE)	Bakcell GSM 2000 (AZEBC)	4		NO	YES	YES	NO	NO
Bangladesh (BGD)	Robi (BGDAK)	4		YES	YES	YES	NO	NO
Bolivia (BOL)	Telecel (BOLTE)	4		YES	YES	YES	NO	NO
Bonaire (BES)	Digicel Curacao & Bonaire (BONDC)	4		YES	YES	NO	NO	NO
Botswana (BWA)	beMobile (BWABC)	4		YES	YES	NO	NO	NO
Botswana (BWA)	Mascom Wireless (BWAGA)	4		YES	YES	YES	NO	NO
British Virgin Islands (VGB)	Digicel British Virgin Islands (VGBDC)	4		YES	YES	NO	NO	NO
Cambodia (KHM)	Smart Axiata Co., Ltd (KHMSM)	4		YES	YES	YES	NO	NO
Canada (CAN)	Rogers Wireless Inc (CANRW)	4	No permanent	NO	YES	YES	YES	NO
Chile (CHL)	Claro (CHLSM)	4		YES	YES	YES	NO	NO
Chile (CHL)	Entel PCS (CHLMV)	4		YES	YES	YES	NO	NO
Chile (CHL)	Telefonica (CHLTM)	4		YES	YES	NO	NO	NO
Colombia (COL)	Claro (COLCM)	4		YES	YES	NO	NO	NO
Colombia (COL)	Columbia Telecommunications S.A. ESP (COLTM)	4		YES	YES	YES	NO	NO
Colombia (COL)	OLA/Tigo (COLCO)	4		YES	YES	YES	NO	NO
Costa Rica (CRI)	CLARO Costa Rica (CRICL)	4		YES	YES	YES	NO	Presumed
Costa Rica (CRI)	I.C.E. (CRICR)	4		YES	YES	YES	NO	NO
Costa Rica (CRI)	Telefonica (CRITC)	4		YES	YES	NO	NO	NO
Curacao (CUW)	Digicel Curacao & Bonaire (ANTCT)	4		YES	YES	YES	NO	NO
Egypt (EGY)	Mobilnil (EGYAR)	4		YES	YES	YES	NO	NO
Egypt (EGY)	Vodafone Egypt (EGYMS)	4		YES	YES	YES	NO	NO
El Salvador (SLV)	Claro (SLVTP)	4		YES	YES	YES	NO	NO
El Salvador (SLV)	Digicel (SLVDC)	4		YES	NO	YES	NO	NO
El Salvador (SLV)	Telemovil (SLVTM)	4		YES	YES	NO	NO	NO
French West Indies (GLP)	Orange (GLP01)	4		YES	NO	NO	NO	NO
Georgia (GEO)	Magti GSM (GEOA)	4		YES	NO	NO	NO	NO
Gibraltar (GIB)	Gibtel (GIBGT)	4		YES	YES	YES	YES	NO
Guatemala (GTM)	Comcel (GTMCM)	4		YES	YES	YES	NO	NO
Guatemala (GTM)	Sercom- CLARO (GTMSC)	4		YES	YES	NO	NO	NO
Guyana (GUY)	Digicel (GUYUM)	4		YES	YES	YES	NO	NO
Haiti (HTI)	ComCEL (HTICL)	4		YES	YES	NO	NO	NO
Honduras (HND)	Celstel TIGO (HND02)	4		YES	NO	YES	NO	NO
India (IND)	Airtel (Andhra Pradesh) (INDJH)	4		YES	NO	YES	NO	NO
India (IND)	Airtel (Delhi) (INDAT)	4		YES	NO	YES	NO	NO
India (IND)	Airtel (Karnataka) (INDJB)	4		YES	NO	YES	NO	NO
India (IND)	Airtel (Rajasthan) (INDH1)	4		YES	NO	YES	NO	NO
India (IND)	Airtel (Tamil Nadu) (INDA4)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Chennai (INDSC)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Gujarat (INDA3)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Himachal Pradesh (INDBL)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Kolkata (INDMT)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Madhya Pradesh (INDA8)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Maharashtra & Goa (INDA2)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Mumbai (INDA1)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Punjab (INDA9)	4		YES	NO	YES	NO	NO
India (IND)	Airtel Uttar Pradesh West (INDA6)	4		YES	NO	YES	NO	NO
India (IND)	Idea Cellular Delhi (INDID)	4		YES	NO	NO	NO	NO
India (IND)	Idea Cellular Gujarat (INDBI)	4		YES	YES	NO	NO	NO
India (IND)	Idea Cellular Karnataka (INDSK)	4		YES	YES	NO	NO	NO
India (IND)	Idea Cellular Kerala (INDEK)	4		YES	YES	NO	NO	NO

tech+ Coverage List World Q2 2023



Country	Network Name	Zone*	Roaming Restrictions	2G	3G	4G	5G	LTE-M
India (IND)	Idea Cellular MADHYA PRADESH (INDMP)	4		YES	YES	NO	NO	NO
India (IND)	Idea cellular Maharastra (INDBO)	4		YES	YES	NO	NO	NO
India (IND)	Idea Cellular Uttar Pradesh West (INDEU)	4		YES	YES	NO	NO	NO
India (IND)	Vodafone Delhi (INDE1)	4		YES	YES	YES	NO	NO
India (IND)	Vodafone India Limited (INDHM)	4		NO	NO	YES	NO	NO
Indonesia (IDN)	Hutchison 3 (IDN89)	4		YES	YES	NO	NO	NO
Indonesia (IDN)	Indosat (IDNSL)	4		YES	YES	YES	NO	NO
Iran (IRN)	IranCell (IRNMI)	4		YES	YES	NO	NO	NO
Iran (IRN)	MCI (IRN11)	4		YES	YES	NO	NO	NO
Jamaica (JAM)	Digicel (JAMDC)	4	Surcharge applies	YES	YES	YES	NO	NO
Jordan (JOR)	Umniah Mobile Company (JORUM)	4		YES	YES	YES	NO	NO
Jordan (JOR)	Zain (JORFL)	4		YES	YES	YES	NO	NO
Kuwait (KWT)	KTC (KWTKT)	4		YES	YES	YES	NO	NO
Kuwait (KWT)	Wataniya Telecom (KWTNM)	4		YES	YES	NO	NO	NO
Kuwait (KWT)	Zain (KWTMT)	4		YES	YES	YES	YES	NO
Kyrgyzstan (KGZ)	MegaCom (KGZMC)	4		YES	YES	YES	NO	NO
Liberia (LBR)	MTN (LBRLC)	4		YES	YES	YES	NO	NO
Macao (MAC)	Hutchison (MACHT)	4		NO	NO	NO	NO	NO
Macedonia Republic of (MKD)	T-mobile / Makedonski Telekom (MKDMM)	4		YES	YES	YES	NO	NO
Macedonia Republic of (MKD)	Vip Operator (MKDNO)	4		YES	YES	YES	NO	NO
Malaysia (MYS)	Digi Telecom (MYSMT)	4		YES	NO	YES	NO	NO
Mexico (MEX)	AT&T (Iusacell) (MEXIU)	4		NO	YES	YES	NO	YES
Mexico (MEX)	Telcel (MEXTL)	4		YES	YES	YES	NO	NO
Mexico (MEX)	Telefónica Móviles México (MEXMS)	4		NO	YES	YES	NO	NO
Monaco (MCO)	Monaco Telecom (MCOM2)	4		NO	YES	YES	YES	NO
Mongolia (MNG)	Mobicom (MNGMC)	4		YES	NO	YES	NO	NO
Myanmar (MMR)	Myanmar Posts and Telecommunications (MMRPT)	4		YES	YES	YES	NO	NO
Nicaragua (NIC)	Enitel (NICEN)	4		YES	YES	YES	NO	NO
Nicaragua (NIC)	Telefonia Celular de Nicaragua (NICMS)	4		YES	YES	NO	NO	NO
Nigeria (NGA)	9Mobile (EMTS) (NGAEM)	4		YES	YES	NO	NO	NO
Nigeria (NGA)	MTN-NG (NGAMN)	4		YES	YES	YES	NO	NO
Panama (PAN)	Cable & Wireless Panama (PANCW)	4		YES	YES	NO	NO	NO
Panama (PAN)	Digicel (PANDC)	4		NO	YES	YES	NO	NO
Panama (PAN)	Tigo (PANMS)	4		YES	YES	NO	NO	NO
Paraguay (PRY)	Claro (PRYHT)	4		YES	YES	YES	NO	NO
Paraguay (PRY)	Tigo (PRYTC)	4		YES	YES	YES	NO	NO
Peru (PER)	Claro Peru (PERTM)	4		YES	YES	NO	NO	NO
Peru (PER)	Entel Peru (PERN3)	4		YES	YES	YES	NO	NO
Peru (PER)	Telefonica (PERMO)	4		YES	YES	YES	NO	NO
Qatar (QAT)	Ooredoo (QATQT)	4		YES	YES	YES	YES	NO
Qatar (QAT)	Vodafone (QATB1)	4		YES	YES	YES	NO	NO
Reunion (REU)	SFR (FRARE)	4		YES	YES	YES	NO	NO
Rwanda (RWA)	MTN (RWAMN)	4		YES	YES	YES	NO	NO
South Africa (ZAF)	MTN (ZAFMN)	4		YES	YES	NO	NO	NO
Sudan (SDN)	MTN Sudan (SDNBT)	4		YES	YES	NO	NO	NO
Suriname (SUR)	Digicel (SURDC)	4		YES	YES	YES	NO	NO
Trinidad and Tobago (TTO)	Digicel (TTODL)	4		YES	YES	YES	NO	NO
United Arab Emirates (ARE)	Etisalat (ARETC)	4	No permanent	NO	YES	YES	YES	NO
Uzbekistan (UZB)	Beeline Uz (UZBDU)	4		YES	YES	YES	NO	NO
Uzbekistan (UZB)	Ucell (UZB05)	4		YES	YES	NO	NO	NO
Uzbekistan (UZB)	UMS LLC (UZB07)	4		YES	YES	YES	NO	NO
Vietnam (VNM)	Viettel (VNMVT)	4		YES	YES	YES	YES	NO
Vietnam (VNM)	Vinaphone (VNMVI)	4		YES	YES	YES	NO	NO
Yemen (YEM)	Spacotel (YEMSP)	4		YES	NO	NO	NO	NO
Afghanistan (AFG)	Etisalat (AFGEA)	5		YES	YES	NO	NO	NO
Algeria (DZA)	ATM Mobilis (DZAA1)	5		YES	YES	YES	NO	NO
Algeria (DZA)	Djezzy (DZAOT)	5		YES	YES	YES	NO	NO
Algeria (DZA)	Wataniya Telecom Algeria (DZAWT)	5		YES	YES	YES	NO	NO
Anguilla Island (AIA)	Cable & Wireless (AIACW)	5		YES	YES	YES	NO	NO
Antigua (ATG)	Cable & Wireless (ATGCW)	5		YES	YES	YES	NO	NO
Bahamas (BHS)	BTC The Bahamas Telecom Company (BHSBH)	5		YES	YES	YES	NO	NO
Bahamas (BHS)	NewCo (BHSNC)	5		NO	YES	NO	NO	NO
Bahrain (BHR)	BHR Mobile Plus (BHRBT)	5		NO	YES	NO	NO	NO
Bahrain (BHR)	VIVA Bahrain (BHRST)	5		YES	YES	NO	NO	NO
Bahrain (BHR)	zain BH (BHRMV)	5		YES	YES	YES	YES	NO
Barbados (BRB)	Cable & Wireless (BRBCW)	5		YES	YES	YES	NO	NO
Brazil (BRA)	TIM (BRACS)	5	No permanent	YES	YES	YES	NO	NO
Brazil (BRA)	TIM (BRARN)	5	No permanent	YES	YES	YES	NO	NO
Brazil (BRA)	TIM (BRASP)	5	No permanent	YES	YES	YES	NO	NO
British Virgin Islands (VGB)	Cable & Wireless (VGBCW)	5		YES	YES	YES	NO	NO
Brunei Darussalam (BRN)	DSTCom /UNN (BRNDS)	5		NO	YES	NO	NO	NO
Burundi (BDI)	U-COM (BDITL)	5		YES	YES	NO	NO	NO
Cameroon (CMR)	MTN (CMRMT)	5		YES	YES	YES	NO	NO
Cape Verde (CPV)	CVMove! (CPVCV)	5		YES	YES	YES	NO	NO
Cape Verde (CPV)	Unitel T+ (CPVTM)	5		YES	YES	YES	NO	NO
Cayman Islands (CYM)	Cable & Wireless (CYMCW)	5		YES	YES	YES	NO	NO
Chad (TCD)	Airtel (TCDCT)	5		YES	YES	NO	NO	NO
Chad (TCD)	Tigo (TCDML)	5		YES	YES	NO	NO	NO
Congo Democratic Rep of (COD)	Airtel (Celtel) (CODCT)	5		YES	YES	NO	NO	NO
Congo Democratic Rep of (COD)	Orange (CCT) (CODOR)	5		YES	YES	NO	NO	NO
Congo Democratic Rep of (COD)	Vodacom Congo (CODVC)	5		YES	YES	NO	NO	NO
Cuba (CUB)	Cubacell (CUB01)	5		YES	YES	NO	NO	NO
Curacao (CUW)	UTS (ANTUT)	5		YES	YES	YES	NO	NO
Dominica Island (DMA)	Cable & Wireless (DMACW)	5		YES	YES	YES	NO	NO
Dominican Republic (DOM)	Altice (DOM01)	5		YES	YES	YES	NO	NO
Dominican Republic (DOM)	Claro Dominicana (DOMCL)	5		YES	YES	NO	NO	NO
Dominican Republic (DOM)	Trilogy Dominicana S.A. (DOMAC)	5		YES	YES	NO	NO	NO
Ecuador (ECU)	Claro (ECUPG)	5		YES	YES	NO	NO	NO
Ecuador (ECU)	Telefonica (ECUOT)	5		YES	YES	YES	NO	NO
Equatorial Guinea (GNQ)	Green Com S.A (GNQHT)	5		YES	YES	NO	NO	NO

Country	Network Name	Zone*	Roaming Restrictions	2G	3G	4G	5G	LTE-M
Fiji (FJI)	Digicel Fiji and Nauru (FJIDP)	5		YES	YES	YES	NO	NO
French Polynesia (PYF)	Vini/Tikiphone (FRATK)	5		YES	YES	NO	NO	NO
French Polynesia (PYF)	Vodafone French Polynesia (PYFVF)	5		YES	YES	YES	NO	NO
Gabon (GAB)	Airtel (Zain) (GABCT)	5		YES	YES	NO	NO	NO
Gambia (GMB)	Africell (Gambia) Ltd (GMBAC)	5		YES	YES	YES	NO	NO
Ghana (GHA)	Mobitel (GHAMT)	5		YES	YES	NO	NO	NO
Ghana (GHA)	MTN (GHASC)	5		YES	YES	NO	NO	NO
Grenada Island (GRD)	Cable & Wireless (GRDCW)	5		YES	NO	YES	NO	NO
Guinea (GIN)	Areeba/MTN-Guinea (GINAG)	5		YES	YES	NO	NO	NO
Honduras (HND)	Claro (HNDME)	5		YES	YES	NO	NO	NO
Iraq (IRQ)	Korek Telecom (IRQKK)	5		YES	YES	NO	NO	NO
Ivory Coast (CIV)	MTN (CIVTL)	5		YES	YES	YES	NO	NO
Jamaica (JAM)	Cable and Wireless Jamaica Ltd (JAMCW)	5		YES	YES	YES	NO	NO
Kenya (KEN)	Airtel (KENKC)	5		YES	YES	NO	NO	NO
Kenya (KEN)	Telekom Kenya Orange (KENTK)	5		YES	YES	NO	NO	NO
Madagascar (MDG)	Airtel (MDGCO)	5		YES	YES	YES	NO	NO
Mauritania (MRT)	Chinguitel (MRTCH)	5		YES	YES	NO	NO	NO
Mauritania (MRT)	Mattel (MRTMT)	5		YES	YES	NO	NO	NO
Mauritius (MUS)	Emtel (MUSEM)	5		YES	YES	YES	NO	NO
Mauritius (MUS)	MTML (MUSMT)	5		YES	YES	YES	NO	NO
Mauritius (MUS)	Orange (MUSCP)	5		YES	YES	YES	NO	NO
Montserrat Island (MSR)	Cable & Wireless (MSRCW)	5		YES	YES	YES	NO	NO
Morocco (MAR)	IAM (MARM1)	5		YES	YES	YES	NO	NO
Morocco (MAR)	Orange (Meditel) (MARMT)	5		YES	YES	YES	NO	NO
Mozambique (MOZ)	Mcel (MOZ01)	5		YES	YES	NO	NO	NO
Myanmar (MMR)	Ooredo (MMROM)	5		NO	YES	NO	NO	NO
Myanmar (MMR)	Telenor Myanmar (MMRTN)	5		YES	YES	NO	NO	NO
Niger (NER)	Airtel (NERCT)	5		YES	YES	NO	NO	NO
Nigeria (NGA)	Airtel Networks Limited (NGAET)	5		YES	YES	NO	NO	NO
Oman, Sultanate of (OMN)	Nawras / Ooredoo (OMNNT)	5		YES	YES	YES	NO	NO
Oman, Sultanate of (OMN)	OMAN MOBILE (OMNGT)	5		YES	YES	YES	YES	NO
Papua New Guinea (PNG)	Digicel PNG (PNGDP)	5		YES	YES	NO	NO	NO
Puerto Rico (PRI)	Puerto Rico Tele Company CLARO (PRICL)	5		NO	YES	YES	NO	NO
Rwanda (RWA)	Airtel Rwanda (Tigo) (RWATG)	5		YES	YES	NO	NO	NO
Rwanda (RWA)	Airtel Rwanda Limited (RWAAR)	5		YES	YES	NO	NO	NO
Saudi Arabia (SAU)	Zain MTC (SAUZN)	5		YES	YES	YES	YES	NO
Senegal (SEN)	Sentel GSM (SENSG)	5		YES	YES	YES	NO	NO
Seychelles (SYC)	Cable & Wireless (SYCCW)	5		YES	YES	YES	NO	NO
Sierra Leone (SLE)	AFR LINTEL (SLEAC)	5		YES	YES	YES	NO	NO
South Sudan (SDN)	MTN (SSDMN)	5		YES	YES	NO	NO	NO
Sri Lanka (LKA)	Etisalat (LKAET)	5		YES	YES	NO	NO	NO
Sri Lanka (LKA)	Hutchison (LKAHT)	5		YES	YES	YES	NO	NO
Sri Lanka (LKA)	Mobitel (LKA71)	5		YES	YES	YES	NO	NO
St Kitts Island (KNA)	Cable & Wireless (KNACW)	5		YES	YES	YES	NO	NO
St Lucia Island (LCA)	Cable & Wireless (LCACW)	5		YES	YES	YES	NO	NO
St Vincent Island (VCT)	Cable & Wireless (VCTCW)	5		YES	YES	YES	NO	NO
St. Maarten (SXM)	TelCell (ANTTC)	5		NO	NO	YES	NO	NO
Tanzania (TZA)	Airtel (TZACT)	5		YES	YES	YES	NO	NO
Tanzania (TZA)	MIC Tanzania (TZAMB)	5		YES	YES	NO	NO	NO
Tanzania (TZA)	Vodacom (TZAVC)	5		YES	YES	NO	NO	NO
Tonga (TON)	Digicel Tonga (TONDP)	5		YES	YES	NO	NO	NO
Turks Island (TCA)	Cable & Wireless (TCACW)	5		YES	YES	YES	NO	NO
Uganda (UGA)	Airtel Uganda (UGACE)	5		YES	YES	NO	NO	NO
Uruguay (URY)	Claro (CTI) (URYAM)	5		YES	YES	YES	NO	NO
Uruguay (URY)	Movistar (URYTM)	5		YES	YES	NO	NO	NO
Vanuatu (VUT)	Digicel Vanuatu (VUTDP)	5		YES	YES	NO	NO	NO
Venezuela (VEN)	Movistar (VENMS)	5		YES	YES	NO	NO	NO
Zambia (ZMB)	MTN (ZMB02)	5		YES	YES	NO	NO	NO
Zimbabwe (ZWE)	NetOne (ZWEN1)	5		YES	YES	NO	NO	NO
Bangladesh (BGD)	Airtel (Bangladesh) (BGDWT)	7		YES	YES	NO	NO	NO
Burundi (BDI)	Smart (BDIL1)	7		YES	YES	NO	NO	NO
Gambia (GMB)	Qcell (GMBQC)	7		YES	YES	NO	NO	NO
Mali (MLI)	Orange Mali SA (MLI02)	7		YES	YES	YES	NO	NO
Nepal (NPL)	Ncell (NPLM2)	7		YES	YES	YES	NO	NO
Over the air (N/A)	AeroMobile (NORAM)	7		YES	YES	NO	NO	NO
Over the sea (N/A)	Telenor Maritime (NORMC)	7		YES	NO	YES	NO	NO
Uganda (UGA)	Smart (UGASU)	7		YES	YES	NO	NO	NO
Bhutan (BTN)	Tashi InfoComm Limited (BTNTC)	SC1		YES	YES	YES	NO	NO
Iran (IRN)	RighTel (IRNTT)	SC1		YES	YES	NO	NO	NO
Lebanon (LBN)	MIC1 Alfa (LBNFL)	SC1		YES	YES	YES	NO	NO
Lebanon (LBN)	MIC2 Touch (LBNLC)	SC1		YES	YES	NO	NO	NO
Libya (LBY)	Al Madar Al Jadid (LBY01)	SC1		YES	YES	NO	NO	NO
Over the sea (N/A)	Vodafone Malta Maritime (MLTMA)	SC1		YES	NO	NO	NO	NO
Sierra Leone (SLE)	Orange (SLECT)	SC1		YES	YES	YES	NO	NO
Liberia (LBR)	Orange (LBR07)	SC2		YES	YES	NO	NO	NO
Over the sea (N/A)	Telecom (BMU01)	SC2		YES	YES	YES	NO	NO
Yemen (YEM)	SabaFon (YEMSA)	SC2		YES	NO	NO	NO	NO
Burkina Faso (BFA)	Orange (BFACT)	SC4		YES	YES	NO	NO	NO
Central African Republic (CAF)	Orange (CAF03)	SC4		YES	YES	NO	NO	NO
Madagascar (MDG)	TELEMA (MDGTM)	SC4		YES	YES	NO	NO	NO
Nepal (NPL)	Nepal Telecommunications (NPLNM)	SC4		YES	YES	NO	NO	NO
New Caledonia (NCL)	Mobilis (NCLPT)	SC4		YES	YES	NO	NO	NO
Over the sea (N/A)	Telecom Italia (ITAGT)	SC4		YES	NO	NO	NO	NO

* Zone 1 (EU + Switzerland, UK, Iceland, Norway)

** Not more than 30% of total M2M/IoT traffic with on AT&T's networks in the US, as measured in relation to global total traffic. T-Mobile applies restricted access to its network. Connection with significant volumes will need to be preapproved.

tech+ Coverage List World Q2 2023



Country	Network Name	Zone*	Roaming Restrictions	2G	3G	4G	5G	LTE-M
Austria (AUT)	A1 (AUTPT)	1		YES	YES	YES	YES	YES
Austria (AUT)	T-Mobile (AUTMM)	1		YES	YES	YES	YES	YES
Belgium (BEL)	Base (BELKO)	1		YES	YES	YES	NO	Presumed
Belgium (BEL)	Orange (BELMO)	1		YES	YES	YES	NO	YES
Belgium (BEL)	Proximus (BELTB)	1		YES	YES	YES	YES	NO
Bulgaria (BGR)	M-Tel Gsm (BGR01)	1		YES	YES	YES	YES	NO
Bulgaria (BGR)	Telenor / Globul (BGRCM)	1		YES	YES	YES	YES	NO
Bulgaria (BGR)	Vivacom (BGRVA)	1		YES	YES	YES	YES	NO
Croatia (HRV)	T-Mobile Croatia (HRVCN)	1		YES	YES	YES	NO	NO
Croatia (HRV)	Tele2/Telemach (HRVT2)	1		YES	YES	YES	NO	NO
Croatia (HRV)	VIPnet (HRVVI)	1		YES	YES	YES	YES	NO
Cyprus (CYP)	CytaMobile (CYPCT)	1		YES	YES	YES	YES	NO
Cyprus (CYP)	EPIC / MTN (CYPSC)	1		YES	YES	YES	YES	NO
Cyprus (CYP)	PrimeTel (CYPPT)	1		NO	YES	YES	NO	NO
Czech Republic (CZE)	O2 (CZEET)	1		YES	YES	YES	YES	NO
Czech Republic (CZE)	T-Mobile (CZERM)	1		YES	NO	YES	YES	NO
Czech Republic (CZE)	Vodafone (CZECM)	1		YES	NO	YES	YES	NO
Denmark (DNK)	Nuuday A/S(TDC) (DNKTD)	1		YES	NO	YES	YES	NO
Denmark (DNK)	Telenor A/S (DNKDM)	1		YES	YES	YES	NO	YES
Denmark (DNK)	Telia Mobile (DNKIA)	1		YES	YES	YES	NO	YES
Estonia (EST)	AS Emt (ESTEM)	1		YES	YES	YES	NO	NO
Estonia (EST)	Elisa Eesti (ESTRE)	1		YES	YES	NO	NO	NO
Estonia (EST)	Tele2 Eesti AS (ESTRB)	1		YES	YES	YES	NO	NO
Finland (FIN)	DNA (FIN2G)	1		YES	YES	YES	NO	YES
Finland (FIN)	Elisa (FINRL)	1		YES	YES	YES	YES	YES
Finland (FIN)	GSM Aland (FINAM)	1		YES	YES	YES	YES	NO
Finland (FIN)	Sonera (FINTF)	1		YES	YES	YES	NO	NO
France (FRA)	Bouygues Telecom (FRAF3)	1		YES	YES	YES	YES	NO
France (FRA)	Free Mobile (FRAF4)	1		NO	YES	YES	NO	NO
France (FRA)	Orange (FRAF1)	1		YES	YES	YES	YES	YES
France (FRA)	SFR (FRAF2)	1		YES	YES	YES	YES	NO
French Guyana (GUF)	Digicel French Guyana (FRAF4)	1		YES	YES	NO	NO	NO
French West Indies (FRA)	Digicel (FRAF4)	1		YES	YES	NO	NO	NO
Germany (DEU)	T-Mobile (DEUD1)	1		YES	NO	YES	YES	YES
Germany (DEU)	Telefonica O2 (DEUE1)	1		YES	NO	YES	NO	Presumed
Germany (DEU)	VODAFONE D2 (DEUD2)	1		YES	NO	YES	YES	YES
Greece (GRC)	T-mobile / Cosmote (GRCCO)	1		YES	NO	YES	YES	NO
Greece (GRC)	Vodafone (GRCPF)	1		YES	YES	YES	NO	NO
Greece (GRC)	Wind Hellas (GRCSH)	1		YES	YES	YES	YES	NO
Guernsey (GGY)	Sure (GBRGT)	1		YES	YES	YES	NO	NO
Hungary (HUN)	T-Mobile (HUNH2)	1		YES	YES	YES	YES	NO
Hungary (HUN)	Telenor (HUNH1)	1		YES	YES	YES	NO	NO
Hungary (HUN)	Vodafone (HUNVR)	1		YES	YES	YES	YES	NO
Iceland (ISL)	Nova (ISLNO)	1		NO	YES	YES	YES	NO
Iceland (ISL)	Siminn (ISLPS)	1		YES	YES	YES	YES	Presumed
Iceland (ISL)	Vodafone / Fjarskrifti (ISLTL)	1		YES	YES	YES	NO	NO
Ireland (IRL)	Meteor (IRLME)	1		YES	YES	YES	YES	NO
Ireland (IRL)	Vodafone (IRLEC)	1		YES	YES	YES	NO	NO
Isle of Man (IMN)	Sure (GBRGT)	1		YES	YES	YES	NO	NO
Italy (ITA)	Iliad Italy (ITAFM)	1		NO	YES	YES	NO	NO
Italy (ITA)	Telecom Italia (ITASI)	1		YES	NO	YES	YES	NO
Italy (ITA)	Vodafone / Omnitel (ITAOM)	1		YES	NO	YES	NO	NO
Jersey (JEY)	Sure (GBRGT)	1		YES	YES	YES	NO	NO
Kazakhstan (KAZ)	Tele2 (KAZ77)	1		YES	YES	YES	NO	NO
Latvia (LVA)	Bite (LVABT)	1		YES	YES	YES	NO	NO
Latvia (LVA)	LMT Gsm (LVALM)	1		YES	YES	YES	NO	YES
Latvia (LVA)	Tele2 (LVABC)	1		YES	YES	YES	YES	NO
Liechtenstein (LIE)	Orange (LIEVE)	1		YES	YES	YES	NO	NO
Liechtenstein (LIE)	Telecom Liechtenstein (LIEMK)	1		YES	YES	YES	NO	NO
Lithuania (LTU)	Bite Gsm (LTUMT)	1		YES	YES	YES	NO	NO
Lithuania (LTU)	Omnitel (LTUOM)	1		YES	NO	YES	NO	NO
Lithuania (LTU)	UAB Tele2 (LTU03)	1		YES	YES	YES	YES	NO
Luxembourg (LUX)	Orange (LUXVM)	1		YES	YES	YES	YES	NO
Luxembourg (LUX)	POST (LUXPT)	1		YES	NO	YES	YES	YES
Luxembourg (LUX)	Tango (LUXTG)	1		YES	YES	YES	YES	NO
Malta (MLT)	Go Mobile (MLTGO)	1		YES	YES	YES	NO	NO
Malta (MLT)	Melita Mobile Ltd. (MLTMM)	1		YES	YES	YES	YES	YES
Malta (MLT)	Vodafone Malta (MLTTL)	1		YES	YES	YES	YES	NO
Martinique (MTQ)	Digicel Martinique (FRAF4)	1		YES	YES	NO	NO	NO
Netherlands (NLD)	T-Mobile NL (NLDPN)	1		NO	YES	YES	NO	YES
Netherlands (NLD)	Vodafone (NLDLT)	1		YES	NO	YES	YES	YES
Norway (NOR)	NetCom / Telia Sonera (NORNC)	1		YES	NO	YES	NO	NO
Norway (NOR)	Telenor (NORTM)	1		YES	YES	YES	NO	YES
Poland (POL)	Orange (POL03)	1		YES	YES	YES	NO	NO
Poland (POL)	P4 (POLP4)	1		YES	YES	YES	NO	NO
Poland (POL)	Plus Gsm (POLKM)	1		YES	YES	YES	YES	NO
Poland (POL)	T-Mobile (POL02)	1		YES	YES	YES	YES	NO
Portugal (PRT)	MEO (TMN) (PRTTM)	1		YES	YES	YES	NO	NO
Portugal (PRT)	NOS (PRTOP)	1		YES	YES	YES	YES	NO
Portugal (PRT)	Vodafone (PRTTL)	1		NO	NO	YES	YES	NO
Romania (ROU)	Orange Romania (ROMMR)	1		YES	YES	YES	YES	NO
Romania (ROU)	Telekom Romania (ROMCS)	1		YES	NO	YES	NO	NO
Romania (ROU)	Vodafone (ROMMF)	1		YES	YES	YES	YES	NO
Slovakia (SVK)	Orange (SVKGT)	1		YES	YES	YES	NO	NO
Slovakia (SVK)	Telefonica Slovakia, s.r.o (SVKO2)	1		YES	YES	YES	YES	NO

tech+ Coverage List World Q2 2023



Country	Network Name	Zone*	Roaming Restrictions	2G	3G	4G	5G	LTE-M
Slovakia (SVK)	Telekom (SVKET)	1		YES	YES	YES	NO	NO
Slovenia (SVN)	Mobitel (SVNMT)	1		YES	NO	YES	YES	NO
Slovenia (SVN)	SI.Mobil (SVNSM)	1		YES	YES	YES	YES	Presumed
Slovenia (SVN)	Telemach Mobile (SVNVG)	1		YES	YES	YES	YES	NO
Spain (ESP)	Orange (ESPRT)	1		YES	YES	YES	YES	YES
Spain (ESP)	Telefonica Movistar (ESPTE)	1		YES	YES	YES	NO	NO
Spain (ESP)	Vodafone (ESPAT)	1		YES	YES	YES	YES	NO
Spain (ESP)	Xfera (ESPXF)	1		YES	YES	YES	NO	NO
Sweden (SWE)	Tele2 Sweden (SWEIQ)	1		YES	YES	YES	YES	YES
Sweden (SWE)	Telenor Sverige (SWEET)	1		NO	NO	NO	NO	Presumed
Sweden (SWE)	TeliaSonera Mobile Networks (SWETR)	1		NO	NO	NO	NO	NO
Switzerland (CHE)	Orange / Salt (CHEOR)	1		NO	YES	YES	YES	NO
Switzerland (CHE)	Sunrise (CHEDX)	1		NO	YES	YES	YES	NO
Switzerland (CHE)	Swisscom, Swissom FL (CHEC1)	1		NO	YES	YES	YES	YES
United Kingdom (GBR)	EE (T-Mobile UK) (GBRME)	1		YES	YES	YES	YES	NO
United Kingdom (GBR)	O2 UK (GBRCN)	1		YES	YES	YES	YES	NO
United Kingdom (GBR)	Vodafone (GBRVF)	1		YES	YES	YES	YES	NO

* Zone 1 (EU + Switzerland, UK, Iceland, Norway)

tech+ Coverage List World Q2 2023



Country	Network Name	Zone*	Roaming Restrictions	2G	3G	4G	5G	LTE-M
Austria (AUT)	A1 (AUTPT)	1		YES	YES	YES	YES	YES
Austria (AUT)	T-Mobile (AUTMM)	1		YES	YES	YES	YES	YES
Belgium (BEL)	Base (BELKO)	1		YES	YES	YES	NO	Presumed
Belgium (BEL)	Orange (BELMO)	1		YES	YES	YES	NO	YES
Belgium (BEL)	Proximus (BELTB)	1		YES	YES	YES	YES	NO
Bulgaria (BGR)	M-Tel Gsm (BGR01)	1		YES	YES	YES	YES	NO
Bulgaria (BGR)	Telenor / Globul (BGRCM)	1		YES	YES	YES	YES	NO
Bulgaria (BGR)	Vivacom (BGRVA)	1		YES	YES	YES	YES	NO
Croatia (HRV)	T-Mobile Croatia (HRVCN)	1		YES	YES	YES	NO	NO
Croatia (HRV)	Tele2/Telemach (HRVT2)	1		YES	YES	YES	NO	NO
Croatia (HRV)	VIPnet (HRVVI)	1		YES	YES	YES	YES	NO
Cyprus (CYP)	CytaMobile (CYPCT)	1		YES	YES	YES	YES	NO
Cyprus (CYP)	EPIC / MTN (CYPSC)	1		YES	YES	YES	YES	NO
Cyprus (CYP)	PrimeTel (CYPPT)	1		NO	YES	YES	NO	NO
Czech Republic (CZE)	O2 (CZEET)	1		YES	YES	YES	YES	NO
Czech Republic (CZE)	T-Mobile (CZERM)	1		YES	NO	YES	YES	NO
Czech Republic (CZE)	Vodafone (CZECM)	1		YES	NO	YES	YES	NO
Denmark (DNK)	Nuuday A/S(TDC) (DNKTD)	1		YES	NO	YES	YES	NO
Denmark (DNK)	Telenor A/S (DNKDM)	1		YES	YES	YES	NO	YES
Denmark (DNK)	Telia Mobile (DNKIA)	1		YES	YES	YES	NO	YES
Estonia (EST)	AS Emt (ESTEM)	1		YES	YES	YES	NO	NO
Estonia (EST)	Elisa Eesti (ESTRE)	1		YES	YES	NO	NO	NO
Estonia (EST)	Tele2 Eesti AS (ESTRB)	1		YES	YES	YES	NO	NO
Finland (FIN)	DNA (FIN2G)	1		YES	YES	YES	NO	YES
Finland (FIN)	Elisa (FINRL)	1		YES	YES	YES	YES	YES
Finland (FIN)	GSM Aland (FINAM)	1		YES	YES	YES	YES	NO
Finland (FIN)	Sonera (FINTF)	1		YES	YES	YES	NO	NO
France (FRA)	Bouygues Telecom (FRAF3)	1		YES	YES	YES	YES	NO
France (FRA)	Free Mobile (FRAF4)	1		NO	YES	YES	NO	NO
France (FRA)	Orange (FRAF1)	1		YES	YES	YES	YES	YES
France (FRA)	SFR (FRAF2)	1		YES	YES	YES	YES	NO
French Guyana (GUF)	Digicel French Guyana (FRAF4)	1		YES	YES	NO	NO	NO
French West Indies (FRA)	Digicel (FRAF4)	1		YES	YES	NO	NO	NO
Germany (DEU)	T-Mobile (DEUD1)	1		YES	NO	YES	YES	YES
Germany (DEU)	Telefonica O2 (DEUE1)	1		YES	NO	YES	NO	Presumed
Germany (DEU)	VODAFONE D2 (DEUD2)	1		YES	NO	YES	YES	YES
Greece (GRC)	T-mobile / Cosmote (GRCCO)	1		YES	NO	YES	YES	NO
Greece (GRC)	Vodafone (GRCPF)	1		YES	YES	YES	NO	NO
Greece (GRC)	Wind Hellas (GRCSH)	1		YES	YES	YES	YES	NO
Guernsey (GGY)	Sure (GBRGT)	1		YES	YES	YES	NO	NO
Hungary (HUN)	T-Mobile (HUNH2)	1		YES	YES	YES	YES	NO
Hungary (HUN)	Telenor (HUNH1)	1		YES	YES	YES	NO	NO
Hungary (HUN)	Vodafone (HUNVR)	1		YES	YES	YES	YES	NO
Iceland (ISL)	Nova (ISLNO)	1		NO	YES	YES	YES	NO
Iceland (ISL)	Siminn (ISLPS)	1		YES	YES	YES	YES	Presumed
Iceland (ISL)	Vodafone / Fjarskrifti (ISLTL)	1		YES	YES	YES	NO	NO
Ireland (IRL)	Meteor (IRLME)	1		YES	YES	YES	YES	NO
Ireland (IRL)	Vodafone (IRLEC)	1		YES	YES	YES	NO	NO
Isle of Man (IMN)	Sure (GBRGT)	1		YES	YES	YES	NO	NO
Italy (ITA)	Iliad Italy (ITAFM)	1		NO	YES	YES	NO	NO
Italy (ITA)	Telecom Italia (ITASI)	1		YES	NO	YES	YES	NO
Italy (ITA)	Vodafone / Omnitel (ITAOM)	1		YES	NO	YES	NO	NO
Jersey (JEY)	Sure (GBRGT)	1		YES	YES	YES	NO	NO
Kazakhstan (KAZ)	Tele2 (KAZ77)	1		YES	YES	YES	NO	NO
Latvia (LVA)	Bite (LVABT)	1		YES	YES	YES	NO	NO
Latvia (LVA)	LMT Gsm (LVALM)	1		YES	YES	YES	NO	YES
Latvia (LVA)	Tele2 (LVABC)	1		YES	YES	YES	YES	NO
Liechtenstein (LIE)	Orange (LIEVE)	1		YES	YES	YES	NO	NO
Liechtenstein (LIE)	Telecom Liechtenstein (LIEMK)	1		YES	YES	YES	NO	NO
Lithuania (LTU)	Bite Gsm (LTUMT)	1		YES	YES	YES	NO	NO
Lithuania (LTU)	Omnitel (LTUOM)	1		YES	NO	YES	NO	NO
Lithuania (LTU)	UAB Tele2 (LTU03)	1		YES	YES	YES	YES	NO
Luxembourg (LUX)	Orange (LUXVM)	1		YES	YES	YES	YES	NO
Luxembourg (LUX)	POST (LUXPT)	1		YES	NO	YES	YES	YES
Luxembourg (LUX)	Tango (LUXTG)	1		YES	YES	YES	YES	NO
Malta (MLT)	Go Mobile (MLTGO)	1		YES	YES	YES	NO	NO
Malta (MLT)	Melita Mobile Ltd. (MLTMM)	1		YES	YES	YES	YES	YES
Malta (MLT)	Vodafone Malta (MLTTL)	1		YES	YES	YES	YES	NO
Martinique (MTQ)	Digicel Martinique (FRAF4)	1		YES	YES	NO	NO	NO
Netherlands (NLD)	T-Mobile NL (NLDPN)	1		NO	YES	YES	NO	YES
Netherlands (NLD)	Vodafone (NLDLT)	1		YES	NO	YES	YES	YES
Norway (NOR)	NetCom / Telia Sonera (NORNC)	1		YES	NO	YES	NO	NO
Norway (NOR)	Telenor (NORTM)	1		YES	YES	YES	NO	YES
Poland (POL)	Orange (POL03)	1		YES	YES	YES	NO	NO
Poland (POL)	P4 (POLP4)	1		YES	YES	YES	NO	NO
Poland (POL)	Plus Gsm (POLKM)	1		YES	YES	YES	YES	NO
Poland (POL)	T-Mobile (POL02)	1		YES	YES	YES	YES	NO
Portugal (PRT)	MEO (TMN) (PRTTM)	1		YES	YES	YES	NO	NO
Portugal (PRT)	NOS (PRTOP)	1		YES	YES	YES	YES	NO
Portugal (PRT)	Vodafone (PRTTL)	1		NO	NO	YES	YES	NO
Romania (ROU)	Orange Romania (ROMMR)	1		YES	YES	YES	YES	NO
Romania (ROU)	Telekom Romania (ROMCS)	1		YES	NO	YES	NO	NO
Romania (ROU)	Vodafone (ROMMF)	1		YES	YES	YES	YES	NO
Slovakia (SVK)	Orange (SVKGT)	1		YES	YES	YES	NO	NO
Slovakia (SVK)	Telefonica Slovakia, s.r.o (SVKO2)	1		YES	YES	YES	YES	NO

tech+ Coverage List World Q2 2023



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Slovakia (SVK)	Telekom (SVKET)	1		YES	YES	YES	NO	NO
Slovenia (SVN)	Mobitel (SVNMT)	1		YES	NO	YES	YES	NO
Slovenia (SVN)	SI.Mobil (SVNSM)	1		YES	YES	YES	YES	Presumed
Slovenia (SVN)	Telemach Mobile (SVNVG)	1		YES	YES	YES	YES	NO
Spain (ESP)	Orange (ESPRT)	1		YES	YES	YES	YES	YES
Spain (ESP)	Telefonica Movistar (ESPTA)	1		YES	YES	YES	NO	NO
Spain (ESP)	Vodafone (ESPAT)	1		YES	YES	YES	YES	NO
Spain (ESP)	Xfera (ESPXF)	1		YES	YES	YES	NO	NO
Sweden (SWE)	Tele2 Sweden (SWEIQ)	1		YES	YES	YES	YES	YES
Sweden (SWE)	Telenor Sverige (SWEET)	1		NO	NO	NO	NO	Presumed
Sweden (SWE)	TeliaSonera Mobile Networks (SWETR)	1		NO	NO	NO	NO	NO
Switzerland (CHE)	Orange / Salt (CHEOR)	1		NO	YES	YES	YES	NO
Switzerland (CHE)	Sunrise (CHEDX)	1		NO	YES	YES	YES	NO
Switzerland (CHE)	Swisscom, Swissom FL (CHEC1)	1		NO	YES	YES	YES	YES
United Kingdom (GBR)	EE (T-Mobile UK) (GBRME)	1		YES	YES	YES	YES	NO
United Kingdom (GBR)	O2 UK (GBRCN)	1		YES	YES	YES	YES	NO
United Kingdom (GBR)	Vodafone (GBRVF)	1		YES	YES	YES	YES	NO

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