

Purism Librem 5 modems and frequencies in Europe

Art	Freq.	Band	BM818-E1	BM818-A1	BM818-T1	PLS8-E	PLS8-US	DE	CH	AT	NL	BE	LU	FR	PL	CZ	DK	IT	ES	PT	GR	BG	RO	HU	UA	LV	EE	LT	RU	BY	UK	NO	SE	TR
GSM	850		✓	✓	✓		✓																											
GSM	900	P/EGSM	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GSM	1800	DCS	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GSM	1900	PCS	✓	✓	✓		✓																											
CDMA	800	BC0			✓																				✓									
UMTS	2100	B1	✓	x	✓	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
UMTS	1900	B2	✓	✓	✓		✓																											
UMTS	1800	B3				✓																												
UMTS	1400	B4		✓	✓		✓																											
UMTS	850	B5	✓	✓	✓		✓																											
UMTS	900	B8	✓	x	✓	✓	x		✓		✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓		✓	
FDD-LTE	2100	B1	✓	x	✓	✓	x							✓	✓	✓																		
FDD-LTE	1900	B2	✓	✓	✓		✓																											
FDD-LTE	1800	B3	✓	✓	✓	✓	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FDD-LTE	850	B4		✓	✓		✓																											
FDD-LTE	850	B5	✓	✓	✓		✓																											
FDD-LTE	2600	B7	✓	x	✓	✓	x	✓	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
FDD-LTE	900	B8	✓	x	✓	✓	x				✓					✓																		
FDD-LTE	700	B12		✓																														
FDD-LTE	700	B13		✓																														
FDD-LTE	700	B17		✓			✓																											
FDD-LTE	800	B20	✓	x	x	✓	x	✓	✓	✓		✓		✓	✓	✓	✓	✓		✓	✓		✓	✓		✓	✓	✓	✓		✓	✓	✓	
FDD-LTE	1900	B25		✓																														
FDD-LTE	700	B28	x	x	✓	x	x							✓																				
FDD-LTE	850	B26		✓																														
TDD-LTE	2100	B34			✓																													
TDD-LTE	2600	B38	✓	x	✓	x	x								✓								✓										✓	
TDD-LTE	1900	B39			✓																													
TDD-LTE	2300	B40	✓		✓																													
TDD-LTE	2500	B41	✓ (120M)	✓ (200M)	✓ (200M)																													
FDD-LTE	1700	B66		✓	✓																													

TDD-LTE Time-Divide-Duplex Send or receive (gladly used for larger amounts of data)

FDD-LTE Frequency-Division-Duplex Send and. Receive (over different frequencies)

Source: <https://www.frequencycheck.com/carriers>

Low frequencies (<1000) = high range (e.g. for rural areas) but lower data rates

High frequencies = poor range (suitable for the city) but high data rates

Legend

- ✓ European standard bands are supported
- x European standard bands, but not supported
- ✓ No European standard band, but supported
- x No European standard band and not supported
- ✓ Supported band, but useless in Europe