

Appendix A: User Terminal Technical Parameters

Parameter	Units	Mobile	Temporary-Fixed	Fixed Station
Antenna Model		1004981	80020711	2.4 m Type 1 X/Y
Antenna Manufacturer		Ethertronics	Kathrein	Comtech Mission Critical Technologies
Number of Units		20	40	1
Antenna transmit gain	dBi @ 2000- 2020 MHz	4	9.5	32
Antenna receive gain	dBi @ 2180- 2200 MHz	4	9.5	32
Terminal High Power Amplifier Power Output (mean or peak?)	Watts	10	10	21.7
Terminal max EIRP	dBW (W)	14 (25.12)	19.5 (89.13)	45.37 (34435)
Directional (y/n)	Y/N	N	Y	Y
Beamwidth	°	110	60	4.4 Tx 4.0 Rx
Horizontal Orientation (+/- deg)	°	N/A	0/90/180/270	0 to 360
Vertical Orientation (+/- deg)	°	N/A	45	10 to 90
Tx Polarization		LHCP/RHCP	Linear slant	RHCP/LHCP
Tx Max bandwidth		10 MHz	20 MHz	45 MHz
Tx Min bandwidth		1 kHz	1 kHz	45 MHz
Modulation		BPSK, FSK, MSK, QPSK, APSK	BPSK, FSK, MSK, QPSK, APSK	GMSK, FSK, BPSK
Frequency Tolerance		2.5 ppm	2.5 ppm	2.5 ppm
Emission Designator		10M0G1D 1K00G1D	10M0G1D 1K00G1D	10M0G1D 1K00G1D
Location (NAD-83)		CONUS and territorial waters	Lat: North 39° 34' 34.873" Long: West 104° 52' 2.726"	Lat: North 39° 10' 40.8" Long: West 77° 14' 49.2"
Radius of Operation (km)		N/A	5 km	N/A