

LOTUL nr.9

TETRA, GSM, UMTS, LTE repeater equipment			
Nr.	GENERIC SPECIFICATIONS	QUANTITY	
1	Multi-band, multi-operator repeater		
	Repeater (1) - TETRA band	380-485 MHz / 385-490 MHz	1
	Repeater (2) - GSM band	880-915 MHz / 925-960 MHz	1
	Repeater (3) - DCS band	1710-1785 MHz / 1805-1880 MHz	1
	Repeater (4) - UMTS band	1920-1980 MHz / 2110-2170 MHz	1
	Repeater (5) - LTE band	2500-2570 MHz / 2620-2690 MHz	1
	Gain	Min: 70dB Max: 90dB	
	Output power (composite)	Min: 33 dBm per frequency band	
	Sub-band filtering	Yes	
	Adjustable attenuation	Yes	
	Build-in multiplexer	Yes	
	Multi-operator support	Yes	
	Interface	1 x Ethernet	
	Monitoring	Web, SNMP, Modem	
	Input power	220 Vac / 50 Hz	
	Operating temperature	0° to 40°C	
	Warranty	Min: 3 years	
2	Donor antennas		
	Type (1)	TETRA band / Dipole or Multiple elements	As needed per vendor system configuration
	Gain (1)	Min: 10dBi for directional antenna or 2 dBi for omni antenna	
	Horizontal beamwidth (1)	50° - 90°	
	Vertical beamwidth (1)	30° - 60°	
	Type (2)	GSM, DCS, UMTS, LTE / Omni or Directional	As needed per vendor system configuration
	Gain (2)	Min: 10dBi @ 2600 MHz (Directional) or 2.5dbi @ 2600 MHz (Omni)	
	Polarization (2)	Vertical	
	Horizontal beamwidth (2)	50° - 90° (Directional)	
	Vertical beamwidth (2)	30° - 60° (Directional, Omni)	
3	Coverage antennas		
	Type (1)	TETRA, GSM, UMTS, LTE / Omni indoor	As needed per vendor system configuration
	Gain (1)	Min: 2 dBi for TETRA band, 2.5 dBi for GSM, UMTS, LTE bands	
4	Splitters, cables and passive elements		
	Type	Compatible for TETRA, GSM, UMTS, LTE frequency bands	As needed per vendor system configuration