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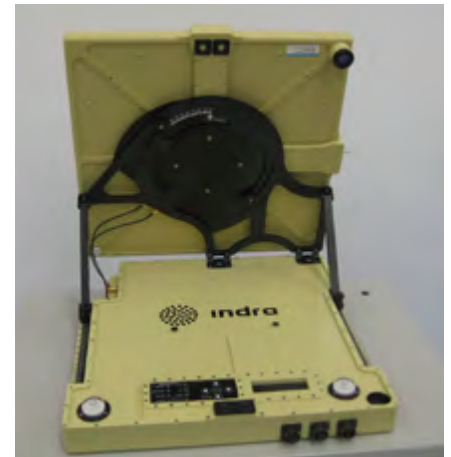
ULTRAMANPACK TLX-4

Ultralightweight Terminal for
X band Satellite Communications

Indra's most advanced technology for portable military satellite communications in X band.

Easily transportable in 2 pieces carried in backpacks.

Deployable and ready to communicate in less than 5 minutes.



Specifications

Antenna & RF characteristics	TLX-4C	TLX-4A
Antenna type	planar 328 x 226 mm	plana 434 x 434 mm
Tx frequency	7.9 - 8.4 GHz	
Rx frequency	7.25 - 7.75 GHz	
Polarization	Tx/Rx RHCP/LHCP (interchangeable)	Tx/Rx RHCP/LHCP (interchangeable)
Radiation diagram	MIL-STD-188-164A	MIL-STD-188-164A
Tx Power (SSPA)	4 W	2 W
EIRP	32 dBW	> 35 dBW
G/T	> 2 dB/°K	> 5 dB/°K

Terminal characteristics	TLX-4C	TLX-4A
Downlink carrier	DVB-S2 ACM	
• Bit rate	1 Msps Nominal (to 10 Msps)	
• Modulation	QPSK, 8PSK	
• FEC	LDPC, 0.25-0.9	
Uplink carrier	D-TDMA	
Bit rate	>128 Kbps	>512 Kbps
• Modulation	BPSK, QPSK	
• FEC	2D16S (0.5 - 0.85)	
Interfaces	2xEthernet 100BaseT	1x100BaseT, RS-232
Dimensions	330 x 240 x 120 mm	434 x 434 x 85 mm
Weight	3,5 + 5 Kg 2 pieces	9 Kg one piece
Power supply	10 - 36 VDC	
Power consumption	100W	
Autonomy (1 battery)	> 2 hours (it depends on the battery)	
Set-to-operation time	< 5 min	
Operation	Incorporated pointing assistance, led's state indicators, GPS receiver and accelerometers integrated	

Environmental characteristics	
Operational temperature	-20°C < T < +55°C
Storage temperature	-30°C < T < +60°C
Tightness degree	IP67
Relative humidity	95%, according to MIL-STD-108G
Rain	280 l/m ² /h. Test according to MIL STD 810G
Vibration	Test according MIL-STD-810G method 514.6
Shock	Test according to MIL-STD-810G method 516.6
Solar radiation	Up to 1120 W/m ²
Pressure	2000m

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Indra reserves the
right to modify
these specifications
without prior notice

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