

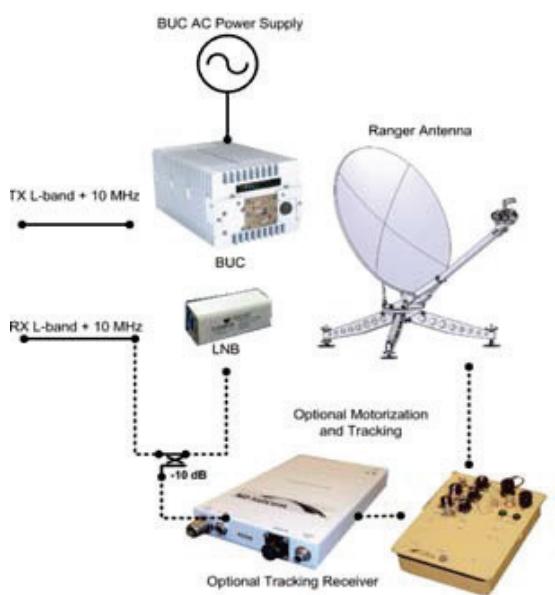
| Transportability



| Flexibility



| Performance



Ranger 2400 Integrated Satcom Terminals

Transportability / Flexibility / Performance

Ranger 2400 terminals offer the most versatile, easily deployable and operator-friendly access available for star, mesh or hybrid satellite networks. Readily configurable for C, X or Ku-Band space segment, Ranger terminals are fully compatible with SkyWAN® networks, as well as conventional SCPC and IP-based networks.

An innovative, modular antenna design incorporating a precision cut 4-Piece SMC reflector offers the most robust performance in its class. It matches operational needs with value and portability.



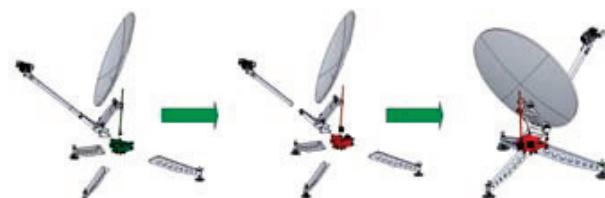
Optional motorization and tracking is available via modular “add-on” components to meet DSCS and/or inclined orbit applications.

Operational frequency band is defined by the integrated feed & electronics package. Common IFL interfaces provide an easy means for changing bands by simply exchanging feed booms.

The integrated feed assembly transports in a separate case, making transport and storage for alternate band configurations clean and straight-forward.

KEY FEATURES

- 2.4m 4-piece precision-cut SMC reflector
- Readily configurable for C,X, or Ku-Band operation; field-reconfigurable in seconds
- X-Band configurations are XTAR, DCSC & WGS compatible (industry leading 0.5dB AR)
- Integrated Feed/Boom/BUC/LNB package for each frequency band
- Modular motorization/tracking/autopointing option is easily field-upgradeable
- L-Band Inter-Facility Link & interfaces compatible with all common modem platforms
- Satellite network & modem platform agnostic, including SkyWAN®, IP and SCPC



Simple substitution of two key pedestal elements motorizes the AZ and EL axes. Automatic tracking is provided by an ACU with several tracking signal options.

Parameter	C-Band	X-Band	Ku-Band
Standard Feed Configuration	2-Port CP 2-Port LP	2-Port CP 0.5 dB AR	2-Port LP copol or xpol
RX Frequency Range (GHz)	3.625 – 4.2	7.25 – 7.75	10.95 – 12.75
RX Gain (Midband) (dBi)	38	43.7	47.6
G/T (Midband; EL = 20°) (dB/K)	19.0	22.9	26.3
TX Frequency Range (GHz)	5.85 – 6.425	7.9 – 8.4	13.75 – 14.5
TX Gain (Midband) (dBi)	42	44.3	49.2
TX Amplifier/BUC Power (Psat) (W)	200	100	100
EIRP (Midband @P1dB) (dBW)	64.0	63.3	67.7

Case Description	Size (Statute)			Size (Metric)				
	L/in	W/in	H/in	V/ft ³	L/cm	W/cm	H/cm	V/m ³
Reflector 1	56	50	20	32.5	143	127	51	0.93
Reflector 2	56	50	20	32.5	143	127	51	0.93
Feed Assmb.	52	28	25	21.1	133	72	64	0.60
Backbeam low	24	28	23	9	61	72	59	0.26
Backbeam up	52	30	11	10	133	77	28	0.29
Pedestal 1	62	27	22	21.4	158	69	56	0.61
Pedestal 2	22	23	31	9.1	56	59	79	0.26
Electronics	36	23	17	8.2	92	59	44	0.24
Motorization	36	23	17	8.2	92	59	44	0.24
Total				152				4.4

* G/Ts and EIRP values are based upon ‘typical’ amplifier selections. Any terminal can be configured with alternate LNB and/or BUC selections to tailor performance for given applications. Specs for CFRP version.

Antenna System	2.4m Single-offset; segmented, SMC 4-Piece with precision latching
Pedestal	High-stiffness tri-pod style; aluminium; quick-assembly with captive hardware
Travel Range	AZ: +/- 180 deg EL: 0 – 90 deg POL: +/- 90 deg (linear feeds)
Wind (anchored)	Operational: 30mph gusting to 45mph; Survival @ stow: 75mph
Operating Temp Range	Outdoor Equipment: -40C to + 60C Indoor Equipment: -10C to +40C

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