



Ranger Integrated Satcom Terminals

Transportability / Flexibility / Performance

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

Innovative, modular antenna designs incorporating carbon-fiber and SMC reflectors from 1.0m to 2.4m in diameter, ensure ease of use, superior performance and reliability in harsh environments.



Size	Reflector Construction	Nominal G/Ts and EIRP Values *				Standard Feed Configurations			
		C-Band	X-Band	KU-Band	KA-Band	C-Band	X-Band	KU-Band	KA-Band
1.0m	4-Piece CFRP 2/ (4)-Piece SMC		30w 14.5 dB/K 49.8 dB/K	16w 18.5 dB/K 53.5 dB/K	4w 19.6 dB/K 53.2 dB/K		2-Port CP 1.5 dB AR	2-port LP; copol or xpol	2-Port CP CFRP Only
1.2m	4-Piece CFRP 2/ (4)-Piece SMC		30w 16.3 dB/K 51.4 dB/K	40w 20.3 dB/K 69.1 dB/K	25w 21.1 dB/K 59.3 dB/K		2-Port CP 1.5 dB AR	2-port LP; copol or xpol	2-Port CP CFRP Only
1.5m	4-Piece CFRP Only	200w 13.7 dB/K 59.1 dB/K	100w 18.0 dB/K 58.6 dB/K	100w 22.0 dB/K 63.7 dB/K	25w 22.7 dB/K 61.1 dB/K	2-Port CP 2-Port LP	2-Port CP 0.5 dB AR	2-port LP; copol or xpol	2-Port CP
1.8m	7-Piece CFRP 4 Piece SMC	200w 15.7 dB/K 61.7 dB/K	100w 20.5 dB/K 61.0 dB/K	100w 23.9 dB/K 65.8 dB/K	25w 24.6 dB/K 63.0 dB/K	2-Port CP 2-Port LP	2-Port CP 0.5 dB AR	2-port LP; copol or xpol	2-Port CP CFRP Only
2.4m	4 Piece SMC Only	200w 19.0 dB/K 64.0 dB/K	100w 22.9 dB/K 63.3 dB/K	100w 26.3 dB/K 67.7 dB/K	- - -	2-Port CP 2-Port LP	2-Port CP 0.5 dB AR	2-port LP; copol or xpol	- - -

Optional motorization and tracking is available via modular “add-on” kits to meet DSCS and/or inclined orbit applications and/or to provide auto-acquisition capability.

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.

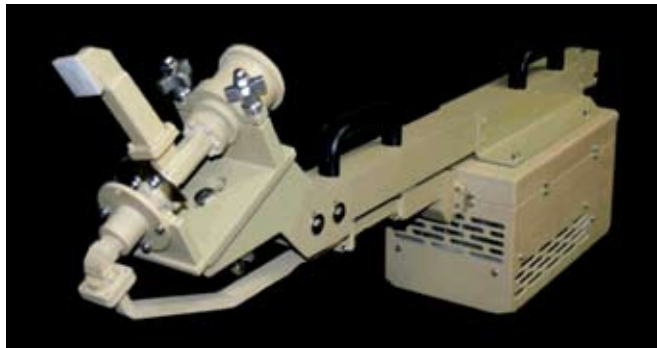
The integrated feed assembly transports in a separate case, making transport and storage for alternate band configurations clean and straight-forward.

KEY FEATURES

- Readily configurable for C, X, Ku, or Ka-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
- Optional ruggedized SkyWAN® modem package available for outdoor applications
- Optimized transit case packaging for maximum portability and longevity

Antenna System	Single-offset; CFRP or SMC; segmented 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

- * 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.
- * Specifications for CFRP version except 2.4m
- * Specifications subject to change without notice



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