



v130NX PM Dual-Ka

(AN/USC-73)

P/N: V5-13M-C2MS

WGS CERTIFIED WIDEBAND KA
1.25m Class Military Grade Terminal



FEATURES

DESIGNED FOR RESILIENCY

The v130NX PM Dual-Ka is capable of operating on either conventional commercial Ka-band and military Ka-band service. The v130NX PM Dual-Ka is designed to work with commercial Ka-band service providers. The v130NX PM Dual-Ka terminal is also WGS certified for multi-carrier operations, enabling additional carriers/waveforms for flexible mission planning. The v130NX PM Dual-Ka opens up a new, broader set of resilient connectivity options for major allied navies worldwide.

RESILIENCE FOR THE WARFIGHTER

This system supports single-, dual-, triple- or even up to eight terminal installations. Shipboard blockage zones, sea state conditions or other conditions are dealt with automatically. Up to 8 modems or waveforms can be automatically switched in and out. And these Intellian systems supports the policy-driven shipboard automation system we call Intellian Orchestra™

MEO/LEO/HEO TRACKING CAPABILITY

The v130NX PM Dual-Ka is ready for upcoming satellite constellations. Built on the field proven NX series, the v130NX PM Dual-Ka is designed with a robust satellite tracking algorithm that not only covers GEO, but also emerging MEO, LEO, and HEO constellations. The v130NX PM increases the overall resiliency of naval communications by supporting current and future GSO and NGSO and dynamic switching between alternative orbits.

ROBUST BY DESIGN

The v130NX PM Dual-Ka is designed for use in military applications and meets or exceeds required specifications, not limited to MIL-STD-167-1A, MIL-STD-810H and MIL-STD-461G. The v130NX PM Dual-Ka is able to operate and survive in the harshest sea environments, providing reliable and uninterrupted communications.

2GHZ WIDE KA-BAND OPTIMIZED

The v130NX PM Dual Ka terminal supports both Military and Commercial Ka-band services, assuring resiliency and diversity anywhere in the world. In combination with automatic switching between the two, this provides the sailor with additional resiliency for their respective missions.

DESIGNED WITH SAILORS IN MIND

Built on the field tested and market proven NX series, the v130NX PM Dual-Ka terminal features the AptusNX antenna management and control system. The terminal provides an industry-leading, easy-to-use intuitive interface delivering efficiency in configuration and maintenance.

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TECHNICAL SPECIFICATIONS

ABOVE DECK UNIT

Radome Height x Diameter	172.4 cm / 67.87" x 168.1 cm / 66.18"
Reflector Diameter	125 cm / 49.21"
Weight	149.2 kg / 329 lbs.
Azimuth Range	Unlimited
Elevation Range	-20° to 115°
Cross-level Range	± 37°
Stabilization Accuracy	0.2° peak miss-pointing @max ship motion condition
Ka-band	
Tx Frequency	29.0 ~ 30.0 GHz, 30.0 ~ 31.0 GHz
Tx Gain	48.5 dBi @30.0 GHz
Rx Frequency	19.2 ~ 20.2 GHz, 20.2 ~ 21.2 GHz
Rx Gain	45.5 dBi @20.2 GHz
G/T	21.5 dB/K (@20.2 GHz, 10°EL)
RF Power	25W
Polarization	Circular (RHCP & LHCP)
Antenna Cable	50 ohm Coaxial Cable

ENVIRONMENTAL SPECIFICATIONS

Temperature	-25 °C to +55 °C, Power On (IEC-60945), MIL-STD-810H
Humidity	IEC-60068-2-30 Upper Test Temp.: +40 °C (-3), Humidity 98 % Lower Test Temp.: +15 °C (+3), Humidity 71 % ~ 78 %
Wind	56 m/sec (125 mph)
Vibration	IEC-60945, MIL-STD-167-1A
Shock	IEC 60068-2-29, Method Eb: Bump (25 g, 6 ms, 100 ea., each direction) MIL-STD-810H
Salt Mist	Saline Solution: 5 ± 1 % NaCl Storage Period: 7 Days (IEC-60945)
Waterproofing	MIL-STD-810H (IPX6)
EMI / EMC	MIL-STD-461G

BELOW DECK UNIT

STD.	Dimensions (WxDxH)	43.1cmx35.0cmx4.4cm / 16.97"x13.78"x1.73"
ACU	Weight	5.0 kg / 11.02 lbs.
	Display	OLED Display
	Gyrocompass Interface	NMEA 0183
	Modem Interface	Ethernet port / RS-232C, -422C / I/O Console
	Remote Management	Yes
	Management Port	Yes
	Intellian LAN Port	Yes
	Power Requirement	100 ~ 240 V AC, 50/60 Hz, 5.3 A

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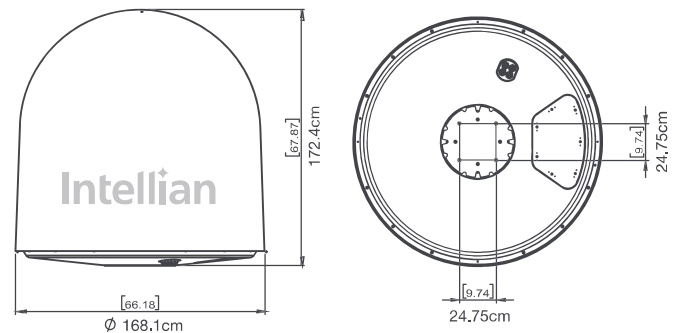
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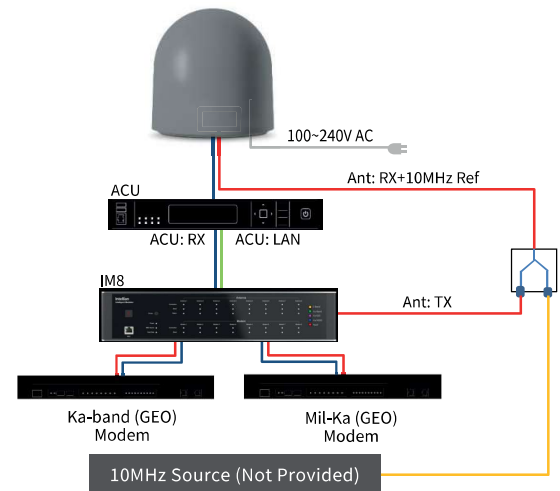
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SYSTEM DIMENSION



SYSTEM DIAGRAM



SYSTEM DIAGRAM (DUAL ANTENNA)

