



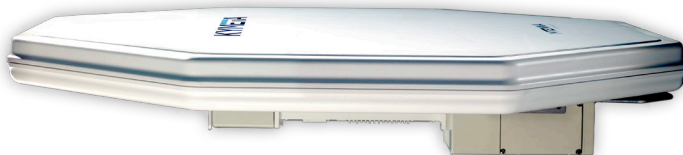
# KYMETA™ u7 TERMINAL

## REVOLUTIONARY MOBILE CONNECTIVITY

Kymeta™ u7 Ku-band satellite terminals address the need for lightweight, low-profile, and high-throughput communication systems on-the-move. The u7 family of terminals makes connectivity for nearly any vehicle, vessel, or fixed platform easier and more reliable than ever before.

KĀLO™ satellite services from Kymeta can be bundled with Kymeta u7 terminals and purchased in flexible, variable usage packages that utilize familiar and easy-to-understand data plans.

Kymeta u7 satellite terminals with KĀLO service plans deliver an economical, end-to-end, mobile broadband solution.



- **Robust** – Hardened and tested to work in land-mobile and maritime environments
- **Easy** – Satellite technician not required for installation, setup, commissioning and provisioning
- **Reliable** – Solid state electronically-steered antenna, no gimbals, no motors required
- **Agile** – Fast tracking, on-the-move connectivity supports mobile broadband

## KYMETA u7 TERMINAL FEATURES

- Simple power-on startup and auto-acquisition for easy operation; auto-commissioning available for KĀLO service
- Low-power electronic beam steering for low maintenance and fast, reliable connectivity
- Over-the-air (OTA) software updates
- Cloud-based customer portal for support and service management tools with APIs for simple integration
- Flat-panel for low-profile installation options
- Flexible mounting solutions for vessels and vehicles
- Region-specific versions available for ITU Regions 1/2 (u7m and u7x models) and ITU Region 3 (u7h model)
- Extreme environment version available for high temperature, high solar load deployments in Regions 1/2 (u7x model)

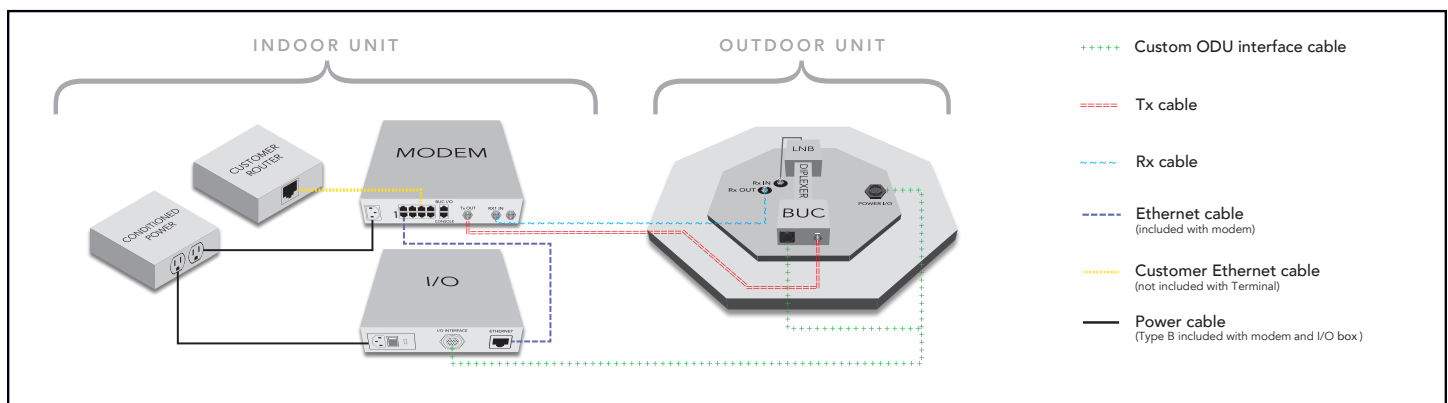
# TERMINAL SPECIFICATIONS\*

ANTENNA	
Band	Ku
Antenna type	Electronically scanned array
Polarization	Vertical and horizontal, software defined
RX frequency range <sup>(1)</sup>	u7x: 11.2 GHz to 12.1 GHz
	u7m: 11.4 GHz to 12.3 GHz
	u7h: 11.8 GHz to 12.7 GHz
G/T (broadside)	9.5 dB/K
RX instantaneous bandwidth	>100 MHz
RX scan roll-off @ 60°	Cos <sup>1.1</sup> -1.2
TX frequency range	14.0 GHz to 14.5 GHz
EIRP (broadside)	8 W BUC: 41.5 dBW
	16 W BUC: 44.5 dBW
TX instantaneous bandwidth	>100 MHz
TX scan roll-off @60°	Cos <sup>1.2</sup> -1.4
TRACKING	
Tracking rate	>20°/second
Scan angles	Theta up to 75° off broadside; Phi 360°
Accuracy	<0.2°
Tracking receiver type	Integrated DVB-S2
POWER AND RF SYSTEM	
Input power	110 VAC to 240 VAC 50/60 Hz
Power consumption	8 W BUC: 300 W (typical), 500 W (peak)
	16 W BUC: 400 W (typical), 600 W (peak)
INTERFACES	
Network interface	RJ45 10/100/1000
RF cables	N-type connectors
ACCESSORIES	
Interface cables	Available in 3.66 m, 7.62 m, or 15.24 m (12 ft., 25 ft., or 50 ft.)
RF cables	Available in 3.66 m, 7.62 m, or 15.24 m (12 ft., 25 ft., or 50 ft.)

MECHANICAL	
Outdoor unit dimensions	L 82.3 cm × W 82.3 cm × D 16.5 cm (L 32.4 in. × W 32.4 in. × D 6.4 in.)
Outdoor unit weight	u7x, u7h: 18.14 kg (40 lb.)
	u7m <sup>(2)</sup> : 20.41 kg (45 lb.)
Outdoor unit mounting interface	4 × M8 × 1.25 mounting standoff 0.95 cm (0.375 in.) deep
Indoor unit dimensions (maximum)	W 44.5 cm × D 31.75 cm × H 9.06 cm (W 17.5 in. × D 12.5 in. × H 3.57 in.)
Indoor unit weight	6.35 kg (14.0 lb.)
ENVIRONMENTAL (OUTDOOR UNIT)	
Operational temperature <sup>(1)</sup>	u7m, u7h: -25 °C to +55 °C
	u7x (antenna): -25 °C to +65 °C
	u7x (terminal): -25 °C to +55 °C
Storage temperature	-40 °C to +75 °C
Ingress protection	IP66
Shock	IEC 60068-2-27
Vibration	MIL-STD-167-1A
	MIL-STD-810G
	IEC 60068-2-57
	IEC 60068-2-64
ENVIRONMENTAL (INDOOR UNIT)	
Operational temperature	0 °C to +50 °C
Storage temperature	-40 °C to +75 °C
Ingress protection	IP20
Shock	IEC 60068-2-27
Vibration	MIL-STD-810G
BTU/hr	8 W BUC: 1025 (typical), 1700 (peak)
	16 W BUC: 1375 (typical), 2050 (peak)
COMPLIANCE	
Earth Station License	FCC 44 CFR 25.222 and 25.226
Certifications	UL, FCC, CE, WEEE, and ROHS

Notes: (1) Terminal version availability: u7x - Q3 2019; u7m - now; u7h - March 2019. (2) A lighter version of u7m terminal will be available in Q3 2019.

\*Specifications are subject to change.



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