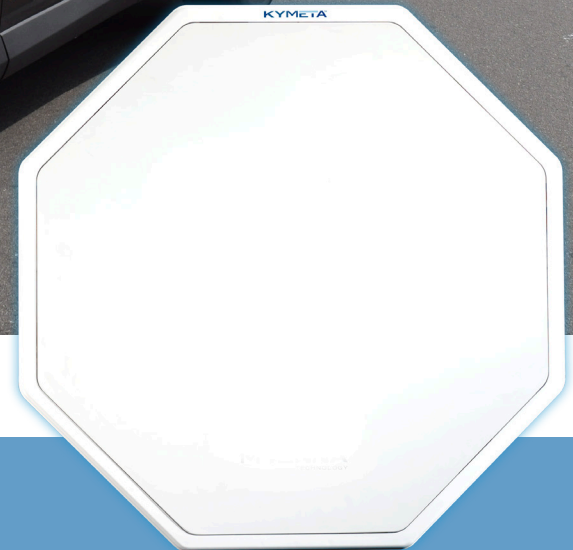# KYMETA™

KYMETA™ u7 TERMINAL

REVOLUTIONARY MOBILE CONNECTIVITY

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

KĀLO™ network 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.

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

- **Robust** – Hardened and proven 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 or motors required
- **Agile** – Fast tracking, on-the-move connectivity supports mobile broadband

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
- Kymeta now has a u7 antenna that supports RX operational frequencies in the upper range of the Ku band (11.85 GHz to 12.75 GHz) supporting customers in ITU Region 3
- In addition, Kymeta now has a u7 antenna with extended operational temperatures up to +65 °C that supports RX operational frequencies in the Ku-band range of 11.2 GHz to 12.1 GHz
- The Kymeta u7 terminal can be configured as an all outdoor system (with the exception of the modem) with the power supply and all interconnects mounted on the back of the antenna

KYMETA u7 TERMINAL SPECIFICATIONS*

	800-xxxxx	TRM-U7Hxx-xxx	TRM-U7Xxx-xxx
ANTENNA			
Band	Ku	Ku	Ku
Antenna type	Electronically scanned array	Electronically scanned array	Electronically scanned array
Polarization	Vertical and horizontal, software defined	Vertical and horizontal, software defined	Vertical and horizontal, software defined
RX frequency range	11.4 GHz to 12.3 GHz	11.85 GHz to 12.75 GHz	11.2 GHz to 12.1 GHz
G/T (broadside)	9.5 dB/K	9.5 dB/K	9.5 dB/K
RX instantaneous bandwidth	>100 MHz	>100 MHz	>100 MHz
RX scan roll-off @ 60°	Cos^1.1-1.2	Cos^1.1-1.2	Cos^1.1-1.2
TX frequency range	14.0 GHz to 14.5 GHz	14.0 GHz to 14.5 GHz	14.0 GHz to 14.5 GHz
EIRP (broadside)	8 W BUC: 41.5 dBW 16 W BUC: 44.5 dBW	8 W BUC: 41.5 dBW 16 W BUC: 44.5 dBW	8 W BUC: 41.5 dBW 16 W BUC: 44.5 dBW
TX instantaneous bandwidth	>100 MHz	>100 MHz	>100 MHz
TX scan roll-off @60°	Cos^1.2-1.4	Cos^1.2-1.4	Cos^1.2-1.4
TRACKING			
Tracking rate	>20°/second	>20°/second	>20°/second
Scan angles	Theta up to 75° off broadside; Phi 360°	Theta up to 75° off broadside; Phi 360°	Theta up to 75° off broadside; Phi 360°
Accuracy	<0.2°	<0.2°	<0.2°
Tracking receiver type	Integrated DVB-S2	Integrated DVB-S2	Integrated DVB-S2
POWER			
Input power	110 VAC to 240 VAC 50/60 Hz	110 VAC to 240 VAC 50/60 Hz	110 VAC to 240 VAC 50/60 Hz
Power consumption	8 W BUC: 100 W (typical) | 425 W (peak) 16 W BUC: 200 W (typical) | 550 W (peak)	8 W BUC: 100 W (typical) | 425 W (peak) 16 W BUC: 200 W (typical) | 550 W (peak)	8 W BUC: 100 W (typical) | 425 W (peak) 16 W BUC: 200 W (typical) | 550 W (peak)
INTERFACES			
Network interface	RJ45 10/100/1000	RJ45 10/100/1000	RJ45 10/100/1000
RF cables	N-type connectors	N-type connectors	N-type connectors
MECHANICAL (OUTDOOR UNIT)			
Dimensions	W 82.3 cm × D 82.3 cm × H 16.6 cm (W 32.4 in. × D 32.4 in. × H 6.5 in.)	Integrator configuration:** W 82.3 cm × D 82.3 cm × H 16.6 cm (W 32.4 in. × D 32.4 in. × H 6.5 in.) Standard configuration:** W 82.3 cm × D 82.3 cm × H 16.7 cm (W 32.4 in. × D 32.4 in. × H 6.6 in.)	Integrator configuration:** W 82.3 cm × D 82.3 cm × H 16.6 cm (W 32.4 in. × D 32.4 in. × H 6.5 in.) Standard configuration:** W 82.3 cm × D 82.3 cm × H 16.7 cm (W 32.4 in. × D 32.4 in. × H 6.6 in.)
Weight	20.41 kg (45 lb.)	26.2 kg (57.7 lb.)**	26.2 kg (57.7 lb.)**
Mounting interface	4 × M8 × 1.25 mounting stand-off posts 0.95 cm (0.375 in.) deep	4 × M8 × 1.25 mounting stand-off posts 0.95 cm (0.375 in.) deep	4 × M8 × 1.25 mounting stand-off posts 0.95 cm (0.375 in.) deep
ENVIRONMENTAL (OUTDOOR UNIT)			
Operational temperature	-25 °C to +55 °C	-25 °C to +55 °C	antenna: -25 °C to +65 °C terminal: -25 °C to +55 °C
Storage temperature	-40 °C to +75 °C	-40 °C to +75 °C	-40 °C to +75 °C
Ingress protection	IP66	IP66	IP66
Shock	IEC 60068-2-27	IEC 60068-2-27	IEC 60068-2-27
Vibration	MIL-STD-167-1A, MIL-STD-810G, IEC 60068-2-57, IEC 60068-2-64	MIL-STD-167-1A, MIL-STD-810G, IEC 60068-2-57, IEC 60068-2-64	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	Refer to specific modem specs	Refer to specific modem specs
Storage temperature	-40 °C to +75 °C		
Ingress protection	IP20		
Shock	IEC 60068-2-27		
Vibration	MIL-STD-810G		
COMPLIANCE			
Earth station license	FCC 44 CFR 25.222 and 25.226	FCC compliant for 25.222 and 25.226	FCC compliant for 25.222 and 25.226
Certifications	UL, FCC, CE, WEEE, and ROHS	UL, FCC, CE, WEEE, and ROHS	UL, FCC, CE, WEEE, and ROHS
ACCESSORIES			
Cable kit	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.)	Four cables: RX cable, TX cable, Power cable, and Ethernet cable Available in 7.62 m (25 ft.)	Four cables: RX cable, TX cable, Power cable, and Ethernet cable Available in 7.62 m (25 ft.)
Mounting handle	N/A	Dimensions: W 56.5 cm × D 54.2 cm × H 9.6 cm (W 22.2 in. × D 21.3 in. × H 3.8 in.) Weight: 2.7 kg (5.9 lb.)	Dimensions: W 56.5 cm × D 54.2 cm × H 9.6 cm (W 22.2 in. × D 21.3 in. × H 3.8 in.) Weight: 2.7 kg (5.9 lb.)

*Specifications are subject to change.

** With the Kymeta u7 terminal integrator configuration, the mounting handle and the cable kit (power cable, RX cable, TX cable, and Ethernet cable) are not included;
with the Kymeta u7 terminal standard configuration, the mounting handle and the cable kit (power cable, RX cable, TX cable, and Ethernet cable) are included.

700-00037-000-rev04