



MTENNA^{U7} ASM

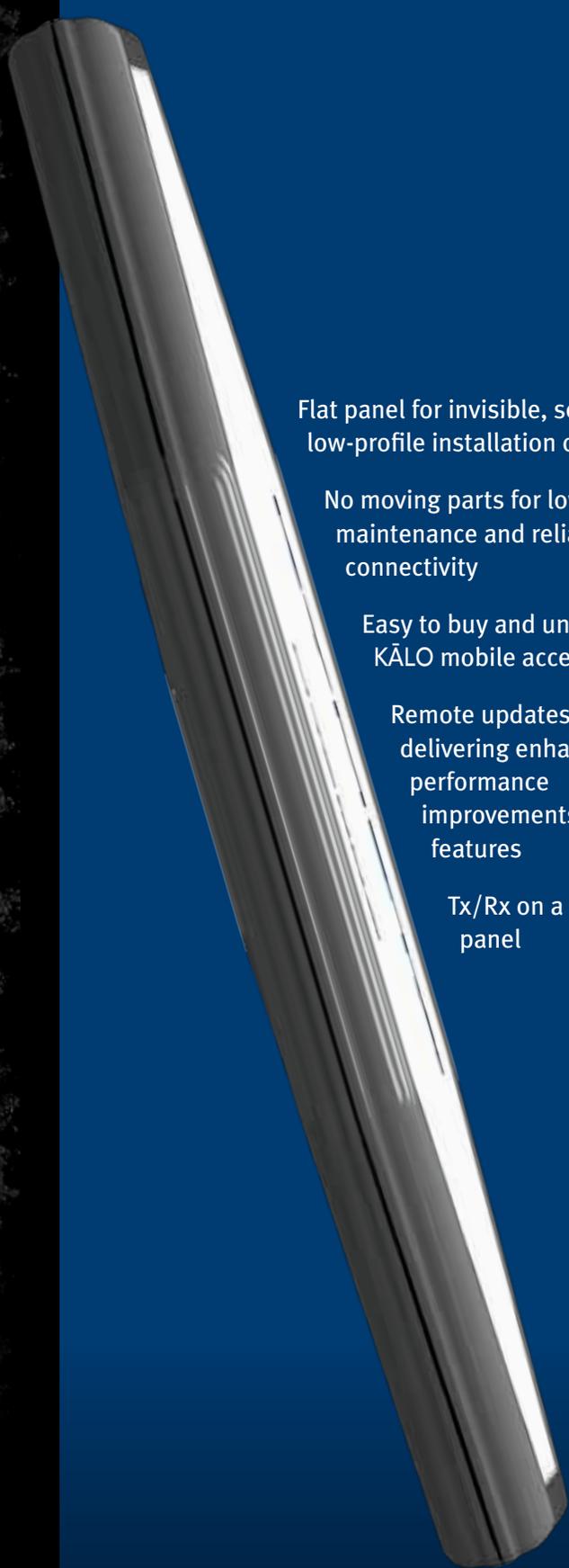
(KU ANTENNA SUBSYSTEM MODULE)

REVOLUTIONARY, GLOBAL, MOBILE CONNECTIVITY

Kymeta's innovative use of metamaterials has solved some of the satellite industry's longest standing technical challenges: the need for lightweight, slim, on-the-move communication systems and services that are easy to buy and understand.

Expand your reach with Kymeta mTenna^{U7} antenna subsystem modules (ASMs). Kymeta mTenna™ technology provides integration and installation options and flexibility for a variety of applications. There are infinite applications for land, sea, and air.

KĀLO™ satellite services can also be bundled with mTenna^{U7} ASMs and purchased in flexible, variable usage packages that utilize familiar and easy-to-understand data plans. Together, mTenna^{U7} ASMs, your integration expertise, and KĀLO service make connectivity as available as a view of the sky.



Flat panel for invisible, seamless,
low-profile installation options

No moving parts for low
maintenance and reliable
connectivity

Easy to buy and understand
KĀLO mobile access plans

Remote updates,
delivering enhanced
performance
improvements and new
features

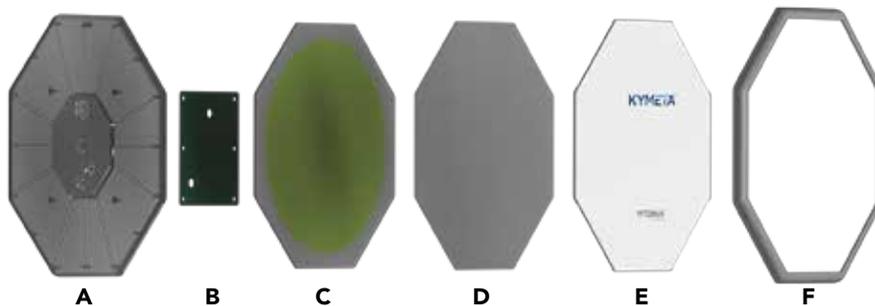
Tx/Rx on a single
panel

MTENNA^{U7} ASM SPECIFICATIONS

PARAMETER	SPECIFICATION*
Rx frequency range	11.4 - 12.4 GHz
Rx gain	33.0 dB
Rx G/T	9.5 dB/K
Rx scan roll-off @ 60° (H-pol)	1.2
Rx scan roll-off @ 60° (V-pol)	1.1
Rx instantaneous bandwidth	>100 MHz
Tx frequency range	14.0 - 14.5 GHz
Tx gain	32.5 dB
Tx instantaneous bandwidth	>100 MHz
Tx scan roll-off @ 60° (H-pol)	1.4
Tx scan roll-off @ 60° (V-pol)	1.2
Tracking rate	>20°/second
Mobile tracking accuracy	FCC compliant for 25.222 and 25.226
Supported BUC	Pre-engineered for 8 and 16 watt BUC, other options upon request
Temperature range	-25°C to +55°C (operational) -40°C to +75°C (storage)
ASM dimensions	L 32.4 in. x W 32.4 in. x D 2.8 in. L 82.3 cm x W 82.3 cm x D 7.1 cm
mTenna I/O dimensions**	W 16.7 in. x D 8.1 in. x H 1.72 in. W 42.42 cm x D 20.57 cm x H 4.37 cm
ODU weight	46.5 lb. / 21.1 kg (ASM + diplexer + BUC + LNB + LNB-to-ASM cable)
Input power (ASM only)	110/240 VAC 50/60 Hz 15 watt peak ASM only (system values dependent on BUC)
Ingress protection	Outdoor unit (ODU): IP66 to protect against weather and environmental conditions expected during operation and storage Indoor unit (IDU**): Rated for use indoors
ODU mounting interface	4 x M8 x 1.25 mounting threaded inserts (female thread), .375 in. (.95 cm) deep on 13.435 in. (34.1 cm) centers. Custom mounting configurations available upon request.

* Specifications are subject to change.

** IDU consists of the mTenna I/O, modem, and customer-supplied equipment.



MTENNA^{U7} ANTENNA STACK

- A. Backshell (enclosure)
- B. Control Electronics
- C. Feed Assembly
- D. TFT Aperture
- E. Radome Assembly
- F. Bezel

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