

# MTENNA™ PLUS MTENNA™ SELECT

## INTRODUCING FLEXIBLE, SCALABLE, ADAPTABLE MOBILE CONNECTIVITY

Kymeta™ mTenna™ PLUS and mTenna™ SELECT are designed for use with the lightweight, flat-panel Kymeta™ KyWay™ outdoor units (ODUs) that can replace traditional gimbaled satellite dishes. The mTenna PLUS amplifies throughput by combining the receive connection of two to four ODUs, delivering up to 5.4 dB of additional RX gain. The mTenna SELECT switches ODUs to transmit data from the most optimally-positioned unit as the vessel or vehicle turns or changes direction. Together, mTenna PLUS and mTenna SELECT provide flexible, scalable, and adaptable mobile satellite connectivity for a broad range of use cases. Now expanded maritime vessel installation options are available to address platform and mast blockages and increase throughput for an enhanced user experience. Land mobile applications like motor coaches, trains, and first responder vehicles may also be supported; contact a Kymeta representative for more information.

## MTENNA PLUS AND MTENNA SELECT DELIVER PERFORMANCE AMPLIFICATION AND COVERAGE EXTENSION

- Flexible – supports broad range of installation options and use cases
- Scalable – delivers up to 5.4 dB of additional RX gain and increases geographic coverage
- Adaptable – each ODU has a broad scan area at least 60° from broadside in 360° rotation, these can be configured in any orientation to provide blind-spot-free communications



### MTENNA PLUS FEATURES

- Increases RX throughput and spectral efficiency
- Supports aggregation of up to four ODUs
- Easy-to-use graphic user interface and over-the-air software updates
- Reliable internet access at high speeds and on rough seas or terrain



### MTENNA SELECT FEATURES

- Optimal transmit switching with seamless handoff to the ODU with the highest gain
- Obstruction-free look angles, ODUs can be placed up to 100 meters apart to support vehicles and vessels with design features that cause blockages

## MTENNA™ PLUS SPECIFICATIONS\*

PERFORMANCE	
Input frequencies	950 MHz to 2150 MHz
RX gain improvement	If mounted coplanar: Up to 5.4 dB with a 4-ODU system Up to 2.7 dB with a 2-ODU system
MECHANICAL	
Dimensions	W 48.3 cm x D 35.9 cm x H 4.4 cm W 19 in. x D 14.1 in. x H 1.7 in.
Weight	3.2 kg 7 lb.
Mounting interface (bolt pattern)	Standard 19 in. rack, 1U height
INTERFACE	
Interface type	1 x Recovery button 1 x On/Off switch (on rear at AC Input)
Ports	3 x RJ45 connectors (to mTenna SELECT, modem, and mTenna <sup>47</sup> ASM ) 1 x AC Power Input 5 x N-type RF connectors 1 x BNC
Available LNB power (IFL)	13-18 VDC @ 0.5 A +19 VDC (nominal) @ 0.5 A, 22 kHz DISEqC tone
User interface	LED status lights on front of unit and LAN accessible web graphical user interface; power switch on rear of unit
Data interfaces	N-type RF connector RJ45 Ethernet
ENVIRONMENTAL	
Ingress protection	IP20, rated for indoor use only
Operational temperature	0 °C to +50 °C
Storage temperature	-40 °C to +75 °C
Humidity	90% non-condensing
POWER	
Input power	100 VAC to 240 VAC 50/60 Hz (75 W typical)
Network interface	RJ45 LAN port (required to power the mTenna SELECT)

## MTENNA™ SELECT SPECIFICATIONS\*

PERFORMANCE	
Switching speed between ODUs	15 ms nominal 100 ms threshold
MECHANICAL	
Dimensions	W 48.3 cm x D 20.7 cm x H 4.4 cm W 19 in. x D 8.1 in. x H 1.7 in.
Weight	1.5 kg 3.3 lb.
Mounting interface (bolt pattern)	Standard 19 in. rack, 1U height
INTERFACE	
Interface type	No buttons or switches - controlled entirely via mTenna PLUS; 6 LEDs on front panel
Ports	1 x RJ45 connector (to mTenna PLUS for power and control) 5 x N-Type RF connector
User interface	LED status lights on front of unit; uses mTenna PLUS LAN accessible web user interface
Data interfaces	N-type RF connector
ENVIRONMENTAL	
Ingress protection	IP20, rated for indoor use only
Operational temperature	0 °C to +50 °C
Storage temperature	-40 °C to +75 °C
Humidity	90% non-condensing
POWER	
Input power	5 V (1.5 W typical via RJ45 from the mTenna PLUS)

## GENERAL SPECIFICATIONS\*

Modem compatibility	iDirect x7 modem on Evolution
ODU	Kymeta KyWay terminal ODU
Certifications	FCC, CE, UL, RoHS compliant

**WARRANTY** Standard limited warranty: 2 years on Kymeta parts. Extended limited warranty: additional 1-year (optional)

\*Specifications are subject to change.

12277 134<sup>th</sup> Ct NE, Redmond, WA 98052, USA | +1 (425) 896-3700 | [www.kymetacorp.com](http://www.kymetacorp.com)  
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