

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™ terminal outdoor units (ODUs) that can replace traditional gimballed 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 | 950–2150 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 ⁴⁷ 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 – 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.

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