



C-COMM™

KU BAND VSAT EQUIPMENT

MT-BB150 – NEW BROADBAND ON THE MOVE

Marine Technologies, LLC (MT) is proud to introduce their newest Ku band VSAT antenna by C-Comm™ – the MT-BB150. This 1.5-meter antenna is the largest in the BB series, designed for wide-coverage Ku band beams, high-reliability and high-bandwidth applications. The MT-BB150 is ideal for use on heavy-duty offshore support vessels as it allows for uninterrupted operation in polar regions and marginal coverage areas.

The parabolic dish and the feed were designed using the same state-of-the-art computer simulation software used in aerospace missions. Its lightweight carbon-fiber construction gives exceptional tracking agility while reducing stress on belts and motors for maximum operational life and minimum maintenance. The BB150 antenna incorporates all electronics within the radome, eliminating the need for installation of additional parts inside the vessel.

A powerful internal antenna remote controller unit (ARCU) allows the configuration interface to be entirely web based, accessed both locally and remotely. The ARCU also records alarms and other diagnostic information that can be accessed via a central server. Extensive diagnostics are available for a single antenna or for an entire fleet of vessels via an intuitive web-based server that collects real-time and historical performance data.

The antenna is fully OpenAMIP certified and offers automatic beam switching (ABS) allowing for reliable satellite communication according to geographic and coverage areas.

Dual-antenna configuration is fully supported using an additional RF intelligent switchbox or via a C-Comm Box. The antenna can be equipped with different BUC types according to the required bandwidth and link budget.

The antenna's innovative design features a radome that can be split into three parts for easy shipping and simple onboard reassembly.



COMMUNICATE WITH THE WORLD



MT-SAL-0128 v1.0

TECHNICAL SPECIFICATIONS

RADIOFREQUENCY

Reflector	59 in (150 cm) ADE carbon fiber
TX Gain	45.8 dB @ 14.250 GHz (without radome)
RF TX Path Loss Between BUC and Dish	< 0.5 dB
BUC Type	4 W Anatel type approved 8 W or 16 W New Japan Radio (optional)
Rx Gain	44.8 dB @ 12.7 GHz (without radome)
G/T	21.9 dB/K @ 20° elevation (with radome)
LNB Low Noise Figure	< 0.6 dB with Swedish microwave
Double Quad LNB Compliant (DiSEqC protocol)	
Polarized Feed: selectable from BBController software or OpenAMIP	linear cross-pol co-pol
Radome Loss	< 0.5 dB TX and RX Ku band optimized

MECHANICAL

Radome Diameter	76.8 in (195 cm)
Antenna Weight	265 lb (120 kg) (with radome)
Operating Temperature	-4° to 140°F (-20° to 60°C) Caloritech heater for ambient temperatures < -4°F (-20°C) (optional)
Antenna Power	110-230V AC, 50-60 Hz
Maximum Angles	roll ±30° / pitch -25°, +100° / unlimited azimuth movement
Rotary Joint	combined slip-ring for Ethernet and power, coaxial 2-way rotary joint for RF signals (optional)
Tracking Accuracy	< 0.2°
Pedestal Type	4 axis: azimuth, elevation, cross level and polarization skew
Mechanics	40% carbon fiber, 60% aluminum

OTHER

GPS	all in view 12 channels internal
Internal 3-Axis Gyro Sensor	9 sensors with Kalman filter
Tracking Possibilities	geostationary satellites inclined orbit satellites
Lock Sources	internal broadband DVB-S2 tuner internal narrowband tuner external modem lock AGC carrier level
BBController Software	OpenAMIP compliant HTTP/HTTPS access to the antenna interface remote software update connection to iDirect modem through OpenAMIP or serial cable Ethernet gyrocompass HDT input
Modem Capability	iDirect X5 (default), Hughes or Gilat or Comtech Technology (optional)
Auto satellite link budget calculation capability and automatic beam switching	
Unlimited number of satellite configurations	

STANDARDS

Conforms to Intelsat type-G, Eutelsat EESS 502 and Anatel standards	
IEC 60945 for professional marine equipment	

* Marine Technologies, LLC reserves the right to alter or amend the published specifications without notice.

MARINE TECHNOLOGIES, LLC

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