



Satellite *TECH*Briefs

Multi-Band FlyAway Terminal For Military Applications



INSTALLING
RELIABILITY



ND SatCom's Multi-Band FlyAway Terminal For Military Applications

The critical missions performed by mobile military forces require lightweight equipment that are compact in size, easy to install, quickly deployable and be operable under extreme weather conditions. In addition, it would be ideal if it had the flexibility to operate in multiple bands. Previously, you would be hard-pressed to find such equipment that checked all the boxes as far as the aforementioned features are concerned. It might require several terminals to operate in various bands. Or they could be too large and heavy that it required large trucks to transport them.

One company has come up with an innovative product that meets all the requirements listed above. ND SatCom, a leading global supplier of satellite-based broadband VSAT modems, as well as broadcast, government and defense communication network and ground station solutions, recently launched a multi-band flyaway terminal that can operate in various bands in extreme weather conditions--the MFT-1500.

“The MFT-1500 is a result of our

listening to feedback from our military customers requesting a lightweight and easy to deploy multi-band terminal that does not require large trucks to transport. We designed the MFT-1500 optimizing portability and product longevity for this new flyaway. Carbon was used wherever possible to reduce weight, enhance durability, and provide the extreme stiffness required for Ka-Band in high wind con-

terminal was designed for easy deployment and dismantling-time and again- while maintaining structural integrity throughout. The terminal can be easily set-up in 30 minutes or less by only two persons and once deployed it can stay for months without building a foundation,” said Michael Heuken, Head of Business Development for Government and Broadcast of ND SatCom.



ND SatCom's MFT-1500 is a lightweight, multi-band terminal that can withstand extreme weather conditions of up to 100 kms gale-force winds. It can be easily set-up in 30 minutes by two personnel.

ditions. Both the unique 180° azimuth range and integrated feed-booms for various bands expedite setup and use. For an extremely fast setup, this

ND SatCom offers a wide range of mobile and transportable satellite ground terminals in tri-band (C-, X- and Ku-Band) or single band configuration up to Ka-Band. They are designed for rapid set-up and operation under harsh environmental conditions, and are available in different mechanical configurations, from trailer or vehicle-mounted to flyaway configurations in transport boxes. All components have been proven in many military and commercial applications. They are fully compliant with military and commercial standards like MIL-STD, STANAG, DISA, ETSI and ITU.

The MFT 1500 can operate in X-, Ka- and Ku-Band by simply swapping the integrated feed boom which can be done on the fly. It can withstand up to 100 km/hr gale-force winds and not just survive but be operational in such harsh conditions.

The MFT 1500 Ku-Band is the

non-motorized terminal platform and is designed for most demanding environmental requirements. It can be upgraded to a motorized version. As an outlook the MFT 1500 will be the starting point of a MFT family with different antenna sizes ranging from 1.5 meter to 2.4 meter dishes.

A Legacy of Reliability

Out-of-area missions require a communication network which receives and broadcasts information with the utmost reliability at all times. As a systems integrator, ND SatCom base its networks on its flagship product, the SKYWAN platform, an advanced MF-TDMA VSAT system for establishing wide-area corporate networks. The latest version of SKYWAN, the SKYWAN 5G, includes unique features, from flexible topologies (star or mesh networks with optional DVB overlay and point-to-point) and powerful performance to its compact portable design.

View a video demonstration of the unique features of the MFT 1500 Multi-Band Flyaway terminal at:

satellitemarkets.com/ndsatcom-mft-1500-cab-sat-2021



ND SatCom's product lines range from wide-area satcom networks to smaller corporate networks, Satellite News Gathering (SNG) vehicles to antenna subsystems, Communications on the Move (COTM) and Communication on the Pause (COTP), portable flyaway systems as well as uplink components such as Travelling Wave Tube Amplifiers (TWTAs) and up-and down-converters.

“Extensive experience in satellite communications, paired with innovative technology, have earned us

an excellent reputation within our diverse customer base: satellite network service providers, international carriers, broadcasters, satellite operators, governmental institutions, corporations and military organizations. More than 30 years of providing highly secure, tailor-engineered solutions have made us a trusted and reliable partner in satellite communications,” said Alexander Müller-Gastell, CEO of ND SatCom.

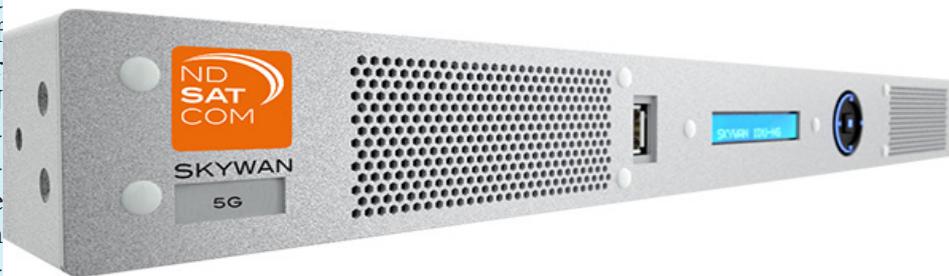
ND SatCom's SKYWAN 5G

The launch of the ND SatCom's MFT 1500 multi-band flyaway terminal underscores the company's competitive advantage.

ND SATCOM incorporated another clear advantage:

the latest version of the premier SKYWAN 5G technology. Customers value the proven high reliability and security that SKYWAN represents.

The bar was raised here, too, by integrating the pioneering innovation of Adaptive Coding and Modulation (ACM) for TDMA, thus permitting transmission during heavy rains with adaptive bandwidth control. For the motorized FLYAWAY version, engineers integrated the ACU into the 5G modem, thus minimizing equipment and enabling pointing on SKYWAN or DVB signals.



Deployed worldwide in mission-critical government and ATC networks where reliability is critical, SKYWAN 5G has built a stellar reputation for its proven high performance. This track record, plus continual innovation, have convinced multiple Ministries of Defense to select

SKYWAN 5G for military networks with deployable terminals where robustness, flexibility, encrypted data transmission and secured management plans are top priorities

For its customers ND SatCom ensures business continuity, cybersecurity and reduced total cost of ownership through a 4-year package supporting the hardware platform, software maintenance and efficient implementation of security and stability patches during operation. Altogether, the customer gains from a strong ROI.



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www.ndsatcom.com

MULTI-BAND FLYAWAY TERMINAL MFT 1500 +++ SEVERE STORMS ++ GALE-FORCE WINDS +++ READY TO COMMUNICATE ANYTIME

Send and receive where other systems have already given up. Discover the new ND SATCOM Multi-Band FlyAway Terminal **MFT 1500** with integrated SKYWAN technology, which is revolutionizing the market with its unique robust design. Whether you are experiencing severe storms or gale conditions, this terminal is extremely reliable, ready for immediate action, and raises the bar worldwide in terms of communication security. Plus, its light and durable components enable easy transport and a long product life.

 Making Missions Possible