



Antenna Technologies

MOCAT Antenna Terminal



- Multi-orbit • Multi-constellation • Multi-mission • Frequency agnostic • Interchangeable, field-replaceable panels • Intuitive, modern GUI

Lightweight, quick-deploy, tactical antenna terminal

CPI's MOCAT* is a multi-orbit, multi-mission, constellation-agnostic tactical flyaway antenna terminal designed to be rapidly deployed in demanding and high-pressure conflict situations. It is engineered to obtain and maintain reliable connectivity under extreme conditions.

Available in 2.4m diameter, MOCAT is designed for global LEO, MEO and GEO transmit and receive operations across multiple frequencies (L-Band through Ka-Band).

Speed and Ease of Deployment

CPI's innovative design delivers lightweight hardware and fast, tool-free assembly. MOCAT has minimal cabling, a motorized positioner, and *groundbreaking interchangeable, field-replaceable reflector panels*, enabling on-air connectivity in under 20 minutes.

Rugged Construction

The reflector and positioner are constructed from carbon fiber, ensuring exceptional stiffness and reliable performance under extreme conditions and temperatures.

Optimized for Portability

The antenna, pedestal, positioners, RF package and modem are packaged in lightweight, stackable, portable cases.

Superior Performance

The terminal is engineered for excellent operational efficiency, with extremely low loss RF component mounting. The system includes an integrated digital tracking receiver.

Suitable for Military and Commercial Uses



The precision-engineered reflector surface and uniquely shaped optics ensure repeatable superior performance that meets or exceeds both military and commercial specifications. The multi-orbit, multi-mission MOCAT terminal can support communications, data transfer, broadcast radar and electronic warfare applications.

CPI MOCAT Antenna Terminal

Transit Cases	Qty. 8, single-band configuration, customized configurations available upon request
Time to Deploy	Less than 20 minutes
Frequency / Electrical Options	L-Band S-Band C-Band, 2-Port Circular X-Band, 2-Port Circular Ku-Band, 2-Port Linear Ka-Band, Comm. 2-Port Circular Ka-Band, Mil. 2-Port Circular
Sidelobe Compliant with	ITU-580, IESS 207, MIL-STD 188-164C, EESS-502 (depending on configuration)
System Interface	Auto or manual local controls Remote Web graphical user interface access
System Power	115/230 VAC, 50/60 Hz
Pointing Loss (Operational Winds)	MIL-STD 188-164C



MOCAT is manufactured in the United States.



To learn more, contact CPI Antenna Technologies at CustomerCareSAT@cpii.com



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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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