



Antenna Control Unit - M4

"Full Autotrack on the Go"

The ACU-M4 brings full antenna control unit capability to a whole new form factor. All the power and functionality of the ACU-M1, with our full-color touch-screen, compacted into a laptop for mobile applications. The ACU-M4 communicates with the touch-screen laptop over USB. From there, any system can be controlled using the fiber interface. Both the laptop and the ACU-M4 work in extreme environmental conditions.

We designed the ACU-M4 to be modular in form, fit, and function, allowing for ease of upgrades, ease of maintenance and ease of learning. We customize the ACU-M4 to fit all your TT&C needs.

The ACU-M4 handles both Satellite and Range applications. For satellite applications, the M4 propagates the satellite trajectory from satellite elements in several formats or program racks from a predicted trajectory. A schedule for tracking several satellites can be programmed from the front panel or remotely. The ACU can automatically download satellite elements from the Internet or from a networked storage area. For range applications the M4 can either Autotrack or be slaved to any slave source to follow the target.

In real time, the M4 adapts to one of three servo loops (Type I, Type I with Feed Forward, and Type II) based on the mode of operation in each axis independently. We designed this to achieve the best possible system response while maximizing the life of the system.

Special Features

- Two handwheels for easy antenna movement
- Test ports in front for easy monitoring of signals
- Handles up to 4 receivers
- Full autotrack capability
- Integrated fiber interface
- Integrated serial interface
- Expandable for additional USB devices



Full autotracking power in a mobile form factor.

For the full capabilities of the ACU-M4, please see ACU-M1 documentation.

Specifications

Dimensions	19" W x 4.15" H x 12" D
Weights	12 lbs
Operating Temperature	-15°C to 50°C (5°F to 140°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Processor	Intel Mobile Pentium® III-M Processor up to 1.2GHz
Operating System	Windows 2000 / Windows XP

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