



RC4500

Satellite Earth Station Antenna Control Unit



FEATURES

- **16-Bit Resolver Position Sensors**
0.005 deg resolution, 3.5' accuracy, optional 25-Bit EnDat Position Sensors 0.00001 deg resolution, +-20" accuracy, optional potentiometer for polarization position sense.
- **Open-Collector Drive Cabinet Interface**
Simple and easy to maintain; Outdoor Cabinet Drives up to 10HP Motors.
- **Direct DC Drive Option**
Interfaces direct to 24V DC motors, 10 amp max
- **Non-volatile Memory**
Stores 100 satellites in non-volatile memory, 20 of which can be inclined orbit tracked
- **Optional Inclined Orbit Step-Tracking**
*Via step track / memory track tables; **Support for NORAD TLE; NORAD Two Line Element tracking; OPT Orbital Predictive Tracking***
- **Multi-Band Operation**
Supports C, Ku, L, Ka and X-band satellites
- **Optional Ethernet Interface**
Support browser based Remote Front Panel & UDP encapsulation of serial M&C commands, and SNMP Monitoring
- **Optional Optical Interface**
Support for Single-Mode Fiber Communication, Ethernet over Fiber.
- **Optional DISA compliant Beacon Receiver**
A low threshold of 43dBHz, fast re-acquisition of less than 1s and high linearity, manufactured by Novella Satcoms Ltd. Supports modulated beacons

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SPECIFICATIONS



Flexibility of the RC4000

The RC4500 architecture consists of stackable cards allowing for flexible and compact ACU packaging that may include:

2U Rack Enclosure

Size: 19.0" x 3.5" x 17" (W x H x D)
2U Rack Enclosure, 17" Deep
Weight: 12 lbs
Temperature: 0° to 50° C Operating
Input Power: 85-265 VAC, 50/60 Hz,
72 Watts
Display: 4 x 40 Character LCD

Embedded Enclosure

Weatherproof enclosure that may be installed directly in an Antenna Interface Unit

Size: 30" x 36" x 10" (W x H x D)
NEMA4 Enclosure
Weight: 125 lbs Typical
Temperature: -20° to +40°C Operating
Input Power: 208 VAC 3-phase, 50/60 Hz,
20 Amp Service typical



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