



RC4500

Satellite Earth Station Antenna Control Unit



FEATURES

- **16-Bit Resolver Position Sensors**
0.005 deg resolution, 3.5 minute accuracy
Optional potentiometer for polarization position sense.
- **Open-Collector Drive Cabinet Interface**
Simple and easy to maintain
- **Direct DC Drive Option**
Interfaces direct to 24V DC motors, 10 amp max
- **Non-volatile Memory**
Stores 20 to 100 satellites in non-volatile memory, 10 of which can be inclined orbit
- **Optional Inclined Orbit Step-Tracking**
Via step track / memory track tables
- **Optional Support for NORAD TLE**
NORAD Two Line Element tracking for inclined orbit satellites
- **Multi-Band Operation**
Supports C, Ku, L, Ka and X-band satellites
- **RS-422 or RS-232 Monitor & Control Interface**
Remote control from many popular PC software packages
- **Optional Ethernet Interface**
Support browser based Remote Front Panel & UDP encapsulation of serial M&C commands
- **Optional Optical Interface**
Support for Single-Mode Fiber Communication, requires the Ethernet Interface option
- **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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