

Technical Specification

Positioning and Tracking

Position Encoding	Resolver or SSI optical encoder interfaces, TBD at time of order per Axis
Quantization Error	Resolver 16bit: 0.0055° Optical SSI: 17bit: 0.0028°, 19bit: 0.0007° 21bit: 0.00017°
Display Position Resolution	0.001°
Maximum Travel Rate of each Antenna Axis	1°/sec
Interfaces to Beacon Receivers	sat-nms LBRX or Analog Voltage Input for other Vendors Equipment
Analog Voltage Input	0 to 10V via D-Sub 9pol Connector
Option Tracking Accuracy	Encoder coupling and Alignment Error should not exceed 0.003° to achieve specified Tracking Accuracy. The Influence of Antenna Structure Thermal Error is not considered.
In step track Mode	Better than 10% of Receive 3dB Beam Width (RMS).
Position Encoding	1 LSB of Resolver / Digital Conversion
Operational Modes	Manual Mode (pointing only), Step Track, Polarization prediction, Adaptive Tracking takes into Account last Days History or TLE/I11 parameters, Program Tracking based on time stamped File Data or TLE/I11 parameters
Number of Presets	200, Storage of ACU Configuration (including LBRX Beacon Receiver Settings)

System Interfaces

MNC Interface	10/100-Base-T, via HTTP GET Requests, RS232 and SNMP, NTP interface
Operator Access	Via Web Browser
To sat-nms MNC and sat-nms ACU-IDU	Ethernet RJ45 or RS232
3 Angular Detectors, 4 th Axis as option	Resolver or SSI Input via D-Sub Connectors, pin compatible to Vertex 7200
Drive Interface for Limit Switches, Interlock, Motors-off Switches and Drive Interface	Via Opto-Coupler Inputs and Outputs according to the 7150 Antenna Drive Unit. Connector D-Sub 25pol.

MNC Interface Specification

Ethernet Interface for MNC and User Interface	10/100-Base-T, via HTTP GET Requests
Operator Interface	Web Browser and Front Panel Display + Keypad
RS232 MNC Interface	D-SUB9

Electrical and Mechanical Specification, Environmental Conditions

Supply Voltage	110 to 230V /50 to 60Hz 2A
Power Consumption	50 W (10W typ. at idle mode)
Temperature Range	-10° to 50°C
Humidity	Up to 90% non-condensing
Dimensions	19", 1RU, 483x45x510(450) mm (WxHxD)
Weight	5.4 ... 6 kg (depending on installed options)



Order codes (other special types available on request):

- ACU2-19V2-SSS: standard 3 axes Version with SSI encoder interface at AZ, EL and POL axis
- ACU2-19V2-SSR: standard 3 axes Version with SSI encoder interface at AZ and EL, Resolver interface at POL axis
- ACU2-19V2-RRR: standard 3 axes Version with Resolver interface at AZ, EL and POL axis
- ACU2-19V2-S01: 4 axes special Version with SSI interface at AZ and EL Axis, Resolver interface at POL and 4th axis and circular/linear switch interface
- ACU2-19V2-S02: 4 axes special Version with Resolver interface at all axes and circular/linear switch interface