

PRODUCT
SPECIFICATIONS

Modular and
Customizable Design



Next Generation Controller System

- **Graphical User Interface** – Common shared interface design between controller, handheld, and remote software package. Enables ease of use, reduced training, and advanced graphical operations & diagnostics.
- **Open, Standards Based Platform** – Non-proprietary hardware and software design based on proven and reliable technology. User customizable open source license User Interface.
- **Connectivity & Control** – Full complement of hardware interfaces for legacy and next generation technologies providing flexible accessibility for system networking, monitoring, control and maintenance.
- **Flexible Modular Upgrade Architecture** – Designed for field upgradeable drop-in flexibility of hardware and software enhancements for expanded functionality.
- **Fiber Optic Interfacility Link** – For secure and reliable communications, and protection against lightning, interference and transient voltage.
- **Built-In Spectrum Analyzer** – Efficient, dual function Spectrum Analyzer/Beacon Receiver reducing complexity, saving valuable rack space and test equipment requirements.

SPECIFICATIONS

NEXT GENERATION CONTROL SYSTEM

INDOOR UNIT

ELECTRICAL

AC Input Power 120-250 VAC @ 1A
 Redundant Power Supplies (Optional)
 Summary Alarm Contacts 100 VAC @ 5A, 24 VDC @ 1A

MECHANICAL

Dimensions 19 in x 5.25 in x 15.5 in
 Weight 20 lb Max
 Mounting Rack Mountable 3RU per
 ANSI/EIA-310-D-1 992 (5.25 in)

ADDITIONAL FEATURES

Software Licensing - Touch Panel GUI code and remote software provided as open-source (GPL) for customer reference use. Controller and embedded systems are proprietary.

OPTIONS AVIALABLE

- Built-In Spectrum Analyzer – L-band; doubles as beacon receiver
- Acquisition Assist- Built-in DVB receiver to discriminate satellites
- GSM/GPRS wireless modem for remote access
- Carrier Logging & Mini CMS System (Req's Spectrum Analyzer Option)
- LNA Redundancy and Waveguide Switching Control
- Built-In Beacon Receiver

OUTDOOR UNIT

ELECTRICAL

AC Input Power 208 or 308 VAC Three Phase,
 50/60 Hz, 60A max

MECHANICAL

Dimensions 32 in x 26.5 in x 10.5 in
 (Other Packages Available)
 Weight 60 lb
 (May Vary with Optional Equipment)

FUNCTION FEATURES

External Interfaces Ethernet, RS-232C, USB, AISG Interface
 M&C Interfaces SNMP v2c via Ethernet (primary M&C interface; TCP/IP
 APC100 emulation (serial);
 TCP/IP based remote control interface available

- Tracking Algorithms – Patented ASC Three-point peaking-based Steptrack included with optional SmarTrack™, Orbital Prediction learning mode NORAD ephemeris tracking, Intelsat Ephemeris tracking, NORAD with adaptive offsets.
- 10 MHz Reference Source
- Redundant Power Supplies
- GPS, Compass, & Inclinometers for Transportable Applications
- Multiple displays for distributed access

Next Generation Controller Block Diagram

