7000 Controller

iNetVu®
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

Online with the touch of a button...

- Simple stand-alone one touch operation to find satellite and stow antenna
- Typical satellite acquisition time in less than 2 minutes
- Ideal for applications that require a quick, simple setup and reliable connection
- Internal DVB receiver provides modem independence
- Based on an embedded software solution

Features

- One touch stand-alone solution
- Front Panel Configurable
- Compatible with all iNetVu mobile platforms
- Supports DVB-S1 and DVB-S2/ACM frequencies
- Optimal, high-precision antenna pointing
- Remote access and operation via Network, Web and other Interfaces
- Built-in motion and movement protection for safety
- Supports inclined orbit satellites
- Integrated with multiple modems
- Works with GPS and GLONASS Satellite Navigation Systems
- GPS signal available for external devices
- Easy to configure and operate
- Interoperable with Uplogix's remote management appliances

Integrated DVB-S2/ACM Tuner

The DVB-S2/ACM Tuner is an integrated part of all iNetVu 7000 controllers. It allows the iNetVu system the option to find the satellite with and without the use of a satellite modem. Compact and adaptable, this high performance tuner is programmable to any DVB-S or DVB-S2/ACM frequency and allows the user to pre-configure specific satellite options.

Modem Compatibility

Certain service providers require additional communications functions for the satellite modem, such as GPS location, auto coss-pol and others. The 7000 controller has been fully intergrated to provide these requirements for all compatible modems.

HughesNet
DW6000 /DW7000
HN7000
HN7000S
HN7700
HN7700S
HX50
HX100
HX 200
HX 250
HX 260

Eastar
UHP-1000

iDirect
iNFINITI 3000 Series
iNFINITI 5000 Series
iNFINITI 7000 Series
Evolution X5

Radyne
DMD20
DMD20 LBST
SkyWire MDX420

STM
SatLink 1000
SatLink 1910

Viasat
Linkstar II
Linkstar IV
Linkstar S2
Linkstar S2A

Tachyon
CI-1300
Ruggedized RMG

Paradise
Evolution Series
Quantum Series

ipstar
IPX-5100
IPX-9200

Gilat
Skyedge II
Skyedge IP

Comtech
CDM-600L
CDM-570L
CDM-625

Optional Beacon Receiver

An optional 19" rack mount iNetVu Beacon Receiver (BR300L) is available and has been integrated to work with the iNetVu Controllers. This external self contained compact unit detects the power density of the satellite beacon (930MHz - 2300MHz) and is connected to the Controller via an RS232 serial port interface.

Interfaces

GPS Antenna:	SMA Connector
RF Rx In:	Type F Connector
RF Rx Out:	Type F Connector
Sensor Input:	DB26 Connector
Motor Control:	9-Pin Circular AMP Connector
Network Interface:	RJ45 Connector
USB 2.0 (Full Speed):	USB Type B Receptacle
Serial Port:	DB9 Female Connector

Electrical

LNB Power:	Disable, 13V, 14V, 18V, 19V, 20V, 21V @ 500 mA (max.)

Model	**7000B**[1]	**7024**[1]
Universat AC Input	90 - 264VAC, 2.2 - 1.1A 47 - 63 Hz	90 - 264VAC, 2.2 - 1.1A 47 - 63 Hz
Idle Power Consumption	12VDC @ 1A	24VDC @ 0.5A
Elevation Power:	12 VDC @ 12A (max.)	24 VDC @ 6A (max.)
Azimuth Power:	12VDC @ 12A (max.)	24 VDC @ 3A (max.)
Polarization Power:	12VDC @ 3A (max.)	24 VDC @ 1A (max.)

Physical

Dimensions: Standard	19" 1U Rack Mountable Unit Height : 1.75" (44.5mm) Width: 17.1" (434mm) Depth : 11.0" (279mm)
Weight:	9.9 lbs. (4.5kg)

Environmental

Operating Temperature:	-20° to +50°C (-4° - 122°F)
Storage Temperature:	-40° to +60°C (-40° - 140°F)

Warranty

Standard 2 years

Certification

Complies with FCC Part 15 Class B
CE Approvals for Emission & Immunity Standards

[1] Required for certain antenna models

C-COM SATELLITE SYSTEMS INC.

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TECHNICAL SPECIFICATIONS

There are SEVEN methods of finding satellite with the iNetVu 7000B controller:

- **DVB Search -** Searches directly for any DVB-S1 or DVB-S2 (ACM) carrier on the target satellite and peaks on it.
- **DVB Search, Opposite Polarity –** Searches for DVB-S1 or DVB-S2 carrier in the opposite polarity on target satellite, then rotates polarization axes and enables transmitter if modem signal attained.
- **DVB Search, Reference Satellite -** Searches for a DVB-S1 or DVB-S2 carrier on ANY configured reference satellite then moves to the target satellite and peaks on modem signal.
- **RF Automatic Search –** The system will stop and search for modem signal when it senses an increase in RF energy received through the DVB tuner as it passes by the target satellite. If the modem signal is found, the system will begin the peak process.
- **RF Override Search –** The user specifies an RF Threshold such that the system stops when it reaches an area above the threshold and looks for modem signal to peak on.
- **Beacon Receiver –** The Controller works seamlessly with the optional iNetVu Beacon Receiver by searching for a specified beacon frequency and then peaks on it (search gain level can be adjusted).
- **Auto Deploy Method -** Peaks on a reference satellite then uses precise pointing mechanism to locate the target satellite, even when no modem RF or beacon signal is available to peak on.

The iNetVu 7000 Controller:

- Can be operated from a PC application using the USB port
- Via its web interface, it can be operated remotely or locally over a network connection
- Can be completely configured from the front panel with a password protected configuration menu
- Protects the platform and its components from damage, using current levels and sensor readings. It includes motion and movement protection as well
- Provides automatic re-peaking if signal degradation occurs
- Works correctly even when deployed while on an incline (in any direction) of up to 25°
- Can search for both DVB-S and DVB-S2/ACM carriers
- Supports full automatic and manual control of the iNetVu Platform
- Allows the users to select from multiple speed levels for both azimuth and elevation
- Allows the system to operate unattended in remote locations
- Is able to upload the recorded log information (maximum of 12 hours) from the controller to the PC for troubleshooting
- Supports full tracking of Inclined Orbit satellites by both signal strength and timed function
- Is capable of powering the LNB with 13-21 Volts, selectable in software
- Provides the option of saving the settings to a configuration file that can be used to configure additional controllers with the same configuration parameters
- Works seamlessly with Uplogix Remote Management Appliances
- Supports both GPS and GLONASS Satellite Navigation Systems
- Supports Electronic Flux Gate Compass for increased speed of acquisition
- Designed and Manufactured to the highest standards of quality and reliability by C-COM
- Supports all iNetVu Mobile antenna platforms

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