

1.2 System Overview

The iNetVu™ Mobile Satellite Internet system is an automatic scanner, polarizer and beam positioning system for a foldable two-way satellite antenna. It has been designed to automatically find and acquire the satellite beam and the position based on both a GPS position reading as well as other positioning parameters. It is targeted for mobile users that require high speed Internet access in remote locations where cable and DSL do not exist. It provides two-way, high-speed data communications over satellite. iNetVu™ empowers mobile users with the ability to stop anywhere there is Satellite coverage and access Internet at broadband speeds. The iNetVu™ Mobile application consists of the iNetVu™ Mobile software 7000 software (for the 7000 Series Controller)

iNetVu™ Mobile Application

Key Features:

- Automatic re-peak on satellite upon signal loss.
- Automatic dish stow if Mobile Platform moves
- If the vehicle is moved before the dish is stowed, the dish will sense movement and will automatically begin stowing itself.
- The dish will not transmit unless it is pointed adequately to meet cross-polarization specifications.
- The system will automatically find any satellite from any point on the Earth within its coverage area.
- Displays comprehensive information about the satellite, dish, motors, GPS, compass, control box, and modem.
- Finds the satellite, peaks the signal strength and selects the optimal path to perform the selected satellite, allowing the customer's computer to be online as soon as possible
- Simple to install, configure and operate.

1.3 General

All iNetVu™ Mobile Systems have been fully tested with the iNetVu™ 7000 Controller prior to shipment. All position feedback; limit sensing, limit switches and motor speeds have been calibrated and preset prior to shipping. The wave-guide, the boom mounted Radio Transmitter cables and the Transmission/Receive coaxial cables have all pre-wired. There is no need to re-calibrate the Mobile Platform unless directed by a C-Com Support Technician.

It is **critical** that the iNetVu™ Controller stay together with the Mobile Platform it shipped with. You may refer to the iNetVu™ Shipping Checklist to confirm this.

The iNetVu™ Mobile System has been designed for either roof rack mounting or mounting directly to a vehicle. The iNetVu™ Mobile Platform should always be secured to the vehicle.

1.4 Pre-Configuration Check List

The iNetVu™ Mobile System is compatible with the following Satellite Modem/VSAT Remotes:

- Advantech S5100/S5420

Note: Please contact C-COM if you require more information about modem compatibility as these may change without further notice.

Modem	Modem F/W	IMS S/W	IMS F/W
Advantech S5100	4002r03+	7.5.7.Beta 2+	7.5.7 Beta+
Advantech S5420	4002r03+	7.5.7.Beta 2+	7.5.7 Beta+

Note: Installed Software and Controller Firmware versions **MUST** be identical for normal Operation.

The following items (**) should be completed/known prior to configuring the iNetVu® Mobile System. Contact the Network Operation Center (NOC) if any of the following items are unknown or if you are unfamiliar with them.

- ❖ **NOC Specified Ku-Band LNB
- ❖ **NOC Specified Ku-Band BUC
- ❖ Cross-over Network Cable
- ❖ Standard iNetVu™ Mobile Platform Cables and Wiring Set

Note: Refer to Modem and or Service provider User Manual and Quick Starts

1.5 *Advantech SatNet S5100/5420*

- ❖ Star, OBP Mesh Network Architecture
- ❖ Can receive the entire DVB-S2/S 80 Mbps carrier with a maximum Ethernet Throughput of 40 Mbps.
- ❖ Up to 6 Mbps Upstream (remote to hub), SCPC or RCS (S5420)
- ❖ VoIP Support
- ❖ VPN and accelerated VPN Support
- ❖ 19 inch rack mountable
- ❖ VLAN Support
- ❖ Upstream Burst Rates: 64kbps – 6Mbps in 16kbps increments
- ❖ Ethernet (RJ-45) Interface
- ❖ GPS input port
- ❖ GUI-Based Control Panel (HTTP)
- ❖ Supply Voltage 100-240 VAC; 50Hz / 60 Hz
- ❖ Connect to DC Power Transformer supplied with IDU.
- ❖ Default IP Address: 10.10.10.10
- ❖ Pushing RESET Button resets the IDU Ethernet IP to its default value of 10.10.10.10. The IP Address remains at this value until the unit is rebooted. To push the reset button, insert a paper clip (or equivalent) into the hold for about one second.
- ❖ ALWAYS turn the power OFF and wait 5 seconds before disconnecting any cables.
- ❖ **BUC Size** Up to 4W (using internal power supply); higher wattage available with optional external power supply

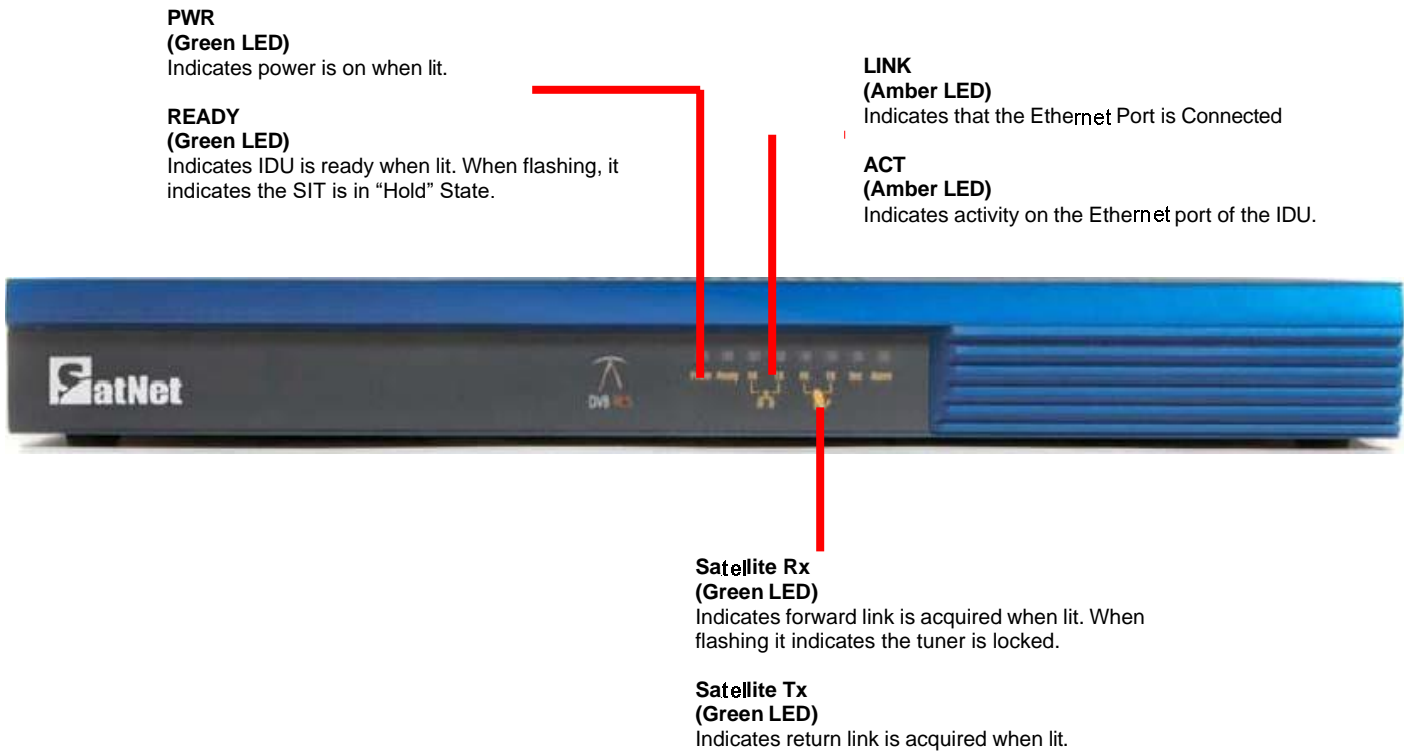


Fig. 1: SatNet S5100/5420 Satellite Modem Front Panel

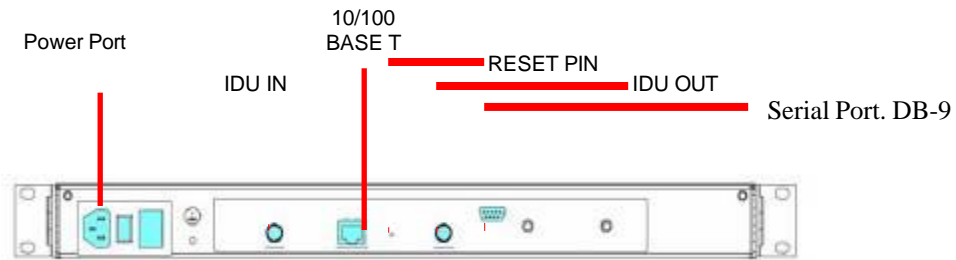


Fig. 2: SatNet S5100/5420 Satellite Modem Rear Panel

Note: Serial Port. DB-9 connector to input the GPS coordinated. The pin 9 carries +24V.

1.6 IDU Web Interface

The IDU Web Interface provides the user an interface with the IDU. The IDU Web Interface can be accessed from any computer with a network or Internet connection to the IDU. The IDU Web Interface allows the operator to:

- Set installation parameters.
- Configure the SIT to access the satellite network.
- Test and troubleshoot satellite links.
- Configure passwords and security settings on the SIT.
- Monitor SIT alarms and events.
- Manage how the SIT queues and transfers data over the satellite network.

The default access (with the default IP Address):

- <https://10.10.10.10>

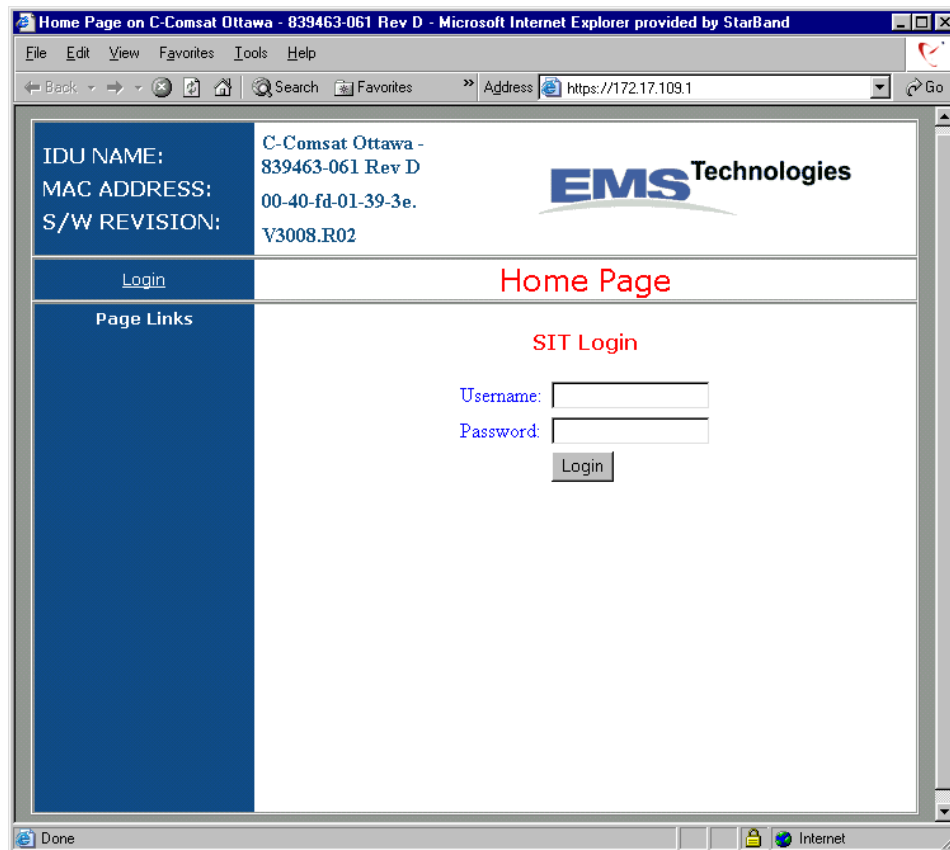


Fig. 3: Web Interface Login Screen

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