Norsat
International Inc.

35 YEARS OF EXCELLENCE

Satellite Acquisition Assistant

Norsat's SAA is a full-featured, lightweight, compact and ruggedized toolkit that provides an all-in-one convenient, cost effective solution for any satellite technician. Norsat's SAA is the only tool required to quickly and accurately acquire a satellite lock. Powered by LinkControl, Norsat's intuitive satellite terminal controller user interface, the SAA provides quick, simple and accurate satellite acquisition.

The Norsat SAA ToolKit

- **Spectrum analyzer**
  Advanced Sat Comm professional tool allowing for enhanced precision during pointing and diagnostics.

- **Integrated GPS, inclinometer, and compass**
  Provides all the bearing information needed to accurately find and point the terminal

- **Narrow band receiver**
  Power level reading for quick check satellite indication

- **DVB receiver**
  Positive lock for exact satellite acquisition confirmation

- **Software Interface**
  Intuitive native and web-based tools provide step by step guidance tools for pointing and advanced diagnostics tools

Intelligent. Flexible. Advanced.

Norsat's LinkControl software provides enhanced diagnostic   tools and an intuitive GUI to simplify the acquisition process. The SAA connects easily to your computer via Ethernet for both Windows and Mac operating environments. The SAA's powerful on-board processor gives it the capability to control a variety of external components.

Hardware

Form Factor:	27.5cm x 17.3cm x 6.6cm 1.8kgs
Power Requirements:	25W 18V-24VDC

Components:	Spectrum Analyzer
	     Range 950 to 1750 MHz
	     Input Signal Range -80dBm to -25dBm
	     Input impedance 50Ohm
	     LNB power 16V (500mA max)
	Narrow Band Receiver
	     Tuning Step Size 250kHz
	     Noise Floor -135bBm (assuming typical LNB)
	     Signal level Resolution 0.1 dB
	DVB-S/S2 Receiver
	Internal Inclinometer
	     (optional) two different orientations
	     +/- 0.1 deg accuracy
	     +/- 0.1 deg resolution
	Internal GPS
	     -165dBm sensitivity
	     35s acquisition from cold start
	     <100ns timing accuracy
	Internal Compass
	     +/- 1deg accuracy level
	     0.1 deg resolution
	     15Hz update speed

Connectors:	LNB, DC power, Ethernet, GPS/Compass
Environmental:	IP66 Operational temperature -32C to +55C

Software

LinkControl 7	LinkControl Server:
	     Runtime control and
	     monitoring of all components
	     Multiple client support
	     Field upgradeable
	Web access:
	     HTML browser based interface
	     Pointing and status functions available
	UI:
	     Full Spectrum Analyzer
	     Profile Support
	     Guided Acquisition process
	     Trouble shooting and status interfaces
	SNMP:
	     Integration with COTS systems
	     Health and status updates
	
	External Component Control:
	     Various SSPAs and Modems

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