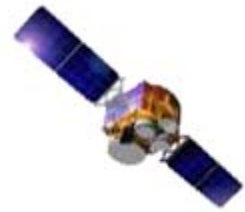


# Glowlink® MS 100 Monitoring Station

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*The MS 100 is a portable monitoring station providing you regional visibility into your network operations.*

## Product Description

The MS 100 is a compact, portable spectrum monitoring station ideal for applications where access to an earth terminal signal source is not easily available. The MS 100 features a transportable, field-deployable antenna, ancillary RF electronics, and the Glowlink® Model 1000 Spectrum Monitoring System.

Requiring only power and a LAN/WAN or modem dial-up network connection, the MS 100 provides remote monitoring capabilities at standard satellite frequency bands anywhere in the satellite's downlink beam. The MS 100 provides the full set of advanced measurements and monitoring capabilities of the Model 1000 Satellite Spectrum Monitoring System, including some of the industry's most powerful carrier and satellite payload monitoring tools.

With these tools, the network operator can trouble-shoot network problems such as signal interferences and gain critical insight into ways to improve satellite utilization and ensuring overall quality of service. Refer to Model 1000 data sheet for all standard capabilities and available options.

## MS 100 Monitoring Station Features

- Provides spectrum monitoring at locations independent from ground station facilities.
- Incorporates Glowlink's Model 1000 spectrum monitoring features and capabilities.
- Available at standard satellite frequency bands
- Provides remote access and control over LAN/WAN or modem dial-up connection.
- Uses segmented antenna and tripod mounting for transportability and rapid setup and tear down.
- Operational in less than 45 minutes.



## MS 100 Technical Specifications

### Measurement Accuracy

Carrier Power:	+/- 0.2dB <sup>1</sup>
Center Frequency:	1.5% of BW <sup>2</sup>
Carrier Frequency:	0.1% of BW + 100 Hz <sup>1</sup>
Carrier Bandwidth:	1.5% of bandwidth <sup>1</sup>
C/N, C/kT:	+/- 0.35 dB <sup>1</sup>

1. Accuracy measured with C/N = 10 dB

2. Typical for C/N = 14 dB

### Characterization Capabilities

Modulation Type*	Identifies: Assorted PSK, QAM modulations
Symbol Rate	Measured symbol rate of digital carrier
Carrier Frequency	Carrier frequency of digital carrier
Transmission rate	Demodulator output bit rate
Es/No	Measured from carrier
Eb/No	Referenced to demodulator
FEC*	Convolutional and other code types

\* Additional modulation and coding types are available. Contact Glowlink for details

### Front End Characteristics

Input Frequency	70 MHz
Instantaneous BW	36 MHz (72 MHz Optional)
Resolution Bandwidth	763 Hz to 97.66 kHz (as low as 12 Hz Optional)
Full Bandwidth Input Power	-20 to +25 dBm
Max Input Level	+30 dBm
Dynamic range	115 dB nominal
Minimum Carrier Level	1 kHz carrier BW: -65 dBm 10 kHz carrier BW: -55 dBm 100 kHz carrier BW: -45 dBm 1 MHz carrier BW: -35 dBm 10 MHz carrier BW: -25 dBm
Connector Type	50 ohm, BNC

### Control Interface

Network	Ethernet (RJ-45)
Downconverter or switch	RS232 (RS422, IEEE-488 Optional)

### Physical

19-Inch Rack mount 4U Standard	EIA RS-310C Standard
Power	110/220VAC ± 10%, 47-63 Hz



## MS 100 Options

- Transponder Operating Point (TOP™)
- Signal Under Carrier (SunCar™) for BPSK, QPSK modulations
- SunCar™ for OQPSK
- Cross-Pol Isolation
- Antenna Pattern Measurement
- WebAccess™
- Email Notification
- Audible and Visual Alarm
- Linux™-based Model 1000 Server Operating System
- Front Touch-Panel Color LCD
- 2U Rack mount chassis
- Inverted Spectrum
- Redundant, hot swappable power supply
- Removable disk drive
- Various support-related services for a worry free ownership experience.

Contact Glowlink for details on these and other features and capabilities available with the Model 1000.

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