

GLOWLINK SPECTRUM MONITORING MODEL 1010



Glowlink Spectrum Monitoring Model 1010

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|--------------------------|---|
| Modulation Type | Digitally modulated communication signals |
| Symbol Rate | Compatible with PSK, APSK, QAM and other modulation |
| Carrier Frequency | Various, including FDMA, TDMA, DSSS, FH, and ACM |
| Transmission Rate | Continuous Wave (tone) |
| Es/Nc | Measured from carrier |
| Eb/Nc | Referenced to demodulator |
| FEC | Convolutional (IESS-308, 309, 310, DVB-S), LDPC (DVB-S2) and others |

Measurement Activity

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|--------------------------|---|
| Carrier Power | Type N, 950-2150 MHz, -55 dBm to 0 dBm (max no damage +10 dBm), 50 Ω |
| Center Frequency | Type N, 950-2150 MHz, 50 Ω |
| Carrier Frequency | Type N, 0 to +10 dBm, 50 Ω |
| Carrier Bandwidth | 100 MHz |
| C/N, C/kT | 250-100,000 ksps |

RF Characteristics

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|-----------------------------------|--|---------------|--------------|
| Connector | SMA, 950-2150 MHz, 50Ω | | |
| Resolution Bandwidth | 97.66 kHz to 12 Hz | | |
| Dynamic Range | 115 dB nominal | | |
| Minimum Carrier Level | 1 kHz Carrier Bandwidth: -85 dBm, 10 kHz Carrier Bandwidth: -75 dBm, 100 kHz Carrier Bandwidth: -65 dBm, 1 MHz Carrier Bandwidth: -55 dBm, 10 MHz Carrier Bandwidth: -45 dBm | | |
| Mode | Model 1010 & 1010x2 | Model 1020 | Model 1030 |
| Instantaneous Bandwidth | 100 MHz ³ | 200 MHz | 300 MHz |
| Full Bandwidth Input Power | -55 to -5 dBm | -52 to -2 dBm | -50 to 0 dBm |
| Max Input Level | 0 dBm | +3 dBm | +3 dBm |

Data Interface

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|----------------|------------------|
| Network | Ethernet (RJ-45) |
| I/C | USB, Serial |

Mechanical/Environmental

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|----------------------|--|
| Size | W 19.00 in x D 21.00 in x H 7.00 in (W 48.26 cm x D 53.34 cm x H 17.78 cm) |
| Weight | 39.00 lbs (17.69 kg) |
| Temperature | Operational 57.2° to 107.6°F (14° to 42°C) |
| Humidity | 30 to 90%, at 95°F (35°C) non-condensing |
| Input Voltage | 100–240 VAC, 50–60Hz |

Model 1010 Options

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| Monitoring | Transponder Operating Point (TOPTM), Signal Under Carrier (SunCarTM), Signal Characterization, Audible and Visual Alarm, 16APSK/32APSK Recognition and Characterization, Narrow Resolution Bandwidth, Background Interference Detection |
| System Functionality | User Account Manager, SNMP |
| Hardware Solutions | L-Band Converter, Database Server, GL950 8-Port RF Switch, Removable System Drive, Hot Swappable Power Supply, Workstation with Spectrum Monitoring Client |

¹ Accuracy measured with C/N = 10 dB

² Typical for C/N = 14 dB

³ 100 MHz per channel on Model 1010x2

⁴ Model 1010 height is 3.50" (8.89 cm)