BTSDA-7

Analog and Digital QPSK Analyzer

❍ Features & Benefits

- 950-2150 MHz Frequency Coverage
- Measures Both DVB and DSS Signals
- Audible Tone Feature Provides Hands Free to Peak Dish
- Includes Carrying Bag and Strap

The BTSDA-7 allows you to perform accurate alignment of satellite antennas using a single instrument. The BTSDA-7 measures signals in the 950-2250 MHz frequency range and will store up to 199 measurement configurations.

Network ID, orbital position and encryption system information can be viewed from DVB satellite providers delivering this information (not available on DSS).

❍ Specifications

RF & Analog Measurements

Frequency Range: 950-2250 MHz

Frequency Resolution Steps: 1 MHz

Input Impedance: 75 Ohm

Voltage to Drive LNB at RF IN:
OFF / +13 V / +18 V / 22 KHz

Average Power Measurement Range at RF Input:
28 to 120 dBµV
-80 to +12 dBm
-32 to +60 dBmV

Power Measurement Resolution: 0.5 dB

Power Measurement Accuracy at +20° C:
1.5 Typical 3 Max. dB

Power Measuring Stability (Temperature):
0.02 dB/°C from 0° to 60° dB

IF Bandwidth (@ -3dB): 53 MHz

QPSK DVB Demodulator:
MPEG2 Transport Stream

Symbol Rate: 2 to 45 MS/s

C/N Measurement from Digital Demodulation:
Up to >14 dB

Bit Error Ratio Measurement:
Up to >2 x 10 –8 accuracy + 1

Quality Test
Fail: With aBER <2 x 10 –4
Marginal: With aBER <2 x 10 –4 and <2 x 10 –6
Pass: With aBER <2 x 10 –6

Reserve Noise Margin:
From –1.5 to +8, 0.5 Accuracy dB

Forward Error Correction:
1 / 2, 2 / 3, 3 / 4, 5 / 6, 4 / 5, 6 / 7, 7 / 8

Frequency Error Measurement (w/ 27.5 MS/s):
100 KHz to 3 MHz

Selectable LNB Oscillator Frequencies:
9.750, 10.000, 10.600, 10.750, 11.250, 11.300 MHz or 0 for 1st IF Reading (L Band)

Digital Standard Selection: DVB or DSS

Digital Multiplex Flatness: 0.5 Accuracy dB

LNB Gain Measurement (LNBg):
From 30 to 70, 3 Typical, 5 Max dB

Cross Polarization Measurement (cPOL):
2 Typical, 4 Max dB

Additional Measurements

Digital Standard Selection:
DVB or DSS (US Standard) Storable

Digital Multiplex Flatness:
0.5 to >6, 0.5 (Steps) dB

LNB Gain Measurement (LNBg):
From 30 to 70, 3 Typical, 5 Max dB

Cross Polarization Measurement (cPOL):
Up to 20 Based on Digital Demodulation)
2 Typical, 4 Max dB

General

Power Supply: Internal NI-CAD +12 V, 2A

External Voltage:
12.5 V to 20 V DC or AC (1A)
(17 VAC Min. to Charge)
(Ø 5.5 x 2.5 Connector on the Battery Pack)
or 230 VAC with AC / AC Adapter Supplied

Battery Capacity (c):
100 w/LNB > 140 w/o LNB Minutes

Battery Recharge Time: 10 hours

Mechanical

Material: Aluminum & Silicon Rubber

Dimensions (WxHxD):
4.73 x 2.36 x 9.26 in
120 x 60 x 235 mm

Weight Instrument & Battery: 2.86 lbs., 1.3 kg

❍ Ordering Information

Model	Stock No.	Description
BTSDA-7	4216	BTSDA-7 Digital QPSK and Analog Analyzer 950-2250 MHz, DVB QPSK Demodulator

Available through **Multicom, Inc.**

1076 Florida Central Parkway, Longwood, FL 32750

Ph: 407-331-7779 Toll Free: 800-423-2594 Fax:407-339-0204

www.multicominc.com multicom@multicominc.com