Beacon Receiver

Intellisystem TECHNOLOGIES

TECHNICAL SPECIFICATIONS

The iNetVu® BR300L 19" rack mount Beacon Receiver is a high performance unit designed to track the power density of a satellite beacon in real time. It supplies a DC voltage output that is linearly proportional to the beacon power by utilizing a true, RMS - responding power detector.

The BR300L has been specifically designed to work seamlessly with all iNetVu® controllers and antenna platforms.

System

Input Frequency	930 MHz - 2300 MHz
Pre-detection Bandwidth	50 kHz
Input Level	- 90 dBm (Min.), -30 dBm (Max.)
Frequency Tuning	10 kHz steps
Frequency Adjust	Front panel or remotely
AFC	± 23 kHz
Threshold	45 dB-Hz, for acquisition
Input Impedance	75 Ohm (Optional 50 Ohm)[1]
Input Connector	Type F, Female
Output Impedance	100 Ohm, Single ended
Output Connector	Terminal Plug & BNC Female
Tracking Gradient	0.5 V/dB
Tracking Response	0 to +10 VDC
System Level Range	60 dB
System Level Adjust	0 to 60 dB, 0.5 dB Steps
Frequency Stability	<1 ppm, 0º to +50º C (32º to 122º F)
Frequency Reference	10 MHz (Internal)
Phase Noise	>75 dB-Hz, 1 kHz from Carrier
Alarms	Unit Lock
Alarm Relay	Form-C
External LNB Power	+18VDC, Switched, In/Out, 500ma, (Max.)
Front Panel Display	Vacuum Fluorescent
M & C	RS-232 or RS-422/485 switched on rear panel
M & C Connector	DB-9, Female

Environmental

Operating Temperature	0º to +50º C (32º to 122º F)
Storage Temperature	-40º to +70º C (-40º to +158º F)
Humidity	95% RH @ 40º C

Physical

Size	4.5 cm (1.75") H; 41 cm (16") D
	48 cm (19") W
Weight	3.63 kg (8lbs)
Primary Power	90-264 VAC 47 - 63Hz, 1.4A Autosensing

Certification

Complies with FCC Part 15 Class B
CE & VCCI Approvals for Emission & Immunity Standards

Shipping dimensions

Receiver box:
56 cm x 51 cm x 13 cm (22" x 20" x 5"), 3.7 kg (8 lbs)

Note: [1] For 50 Ohm/N-Type please order BR300L-N (SMA Type is also available)

INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change   May 2016