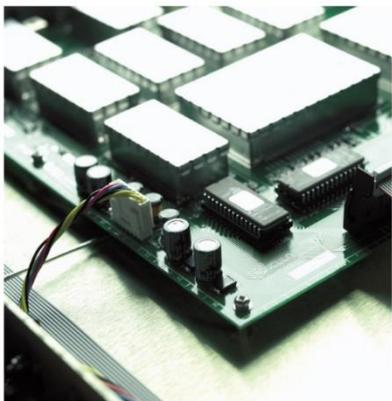




Compact Tracking Receiver – B38



- **Unique PLL receiver with coherent acquisition and detection**
- **Threshold better than 43 dBHz**
- **Less than 1 second acquisition time**
- **Unique proprietary RF techniques**

Input:	940 to 2150MHz
Input attenuator:	0 to -30dBc
Maximum beacon level:	-65dBm (input attenuator set to 0dB)
Maximum aggregate input power:	-15dBm (input attenuator set to 0dB)
Output voltage:	±10V dc
	Option 1: 0 to +10V dc
	Option 2: Single scope, Customer defined
Output voltage offset:	Adjustable to 0V for input power levels from -60dBm to -100dBm
PLL noise bandwidth:	2kHz
Search bandwidth:	±100kHz
Acquisition time:	<1 second
Threshold for re-acquisition:	43 dBHz
Level detector:	Coherent, 100ms time constant
Power supply:	Outdoor models: 12 to 24V dc. 300mA Indoor models: 110/220V AC, 50/60Hz. 10W
Temperature	Operating: 0° to 50°C Storage: -40° to 85°C
humidity	Operating: 0 to 90% Storage: 0 to 95%
Communications:	Serial remote interface RS232 or RS422/485 configurable.
Mechanical:	IP67 box 230x135x30mm

Novella compact receiver have been designed to track and measure beacons of all known commercial and military satellites.

The combination of tried and tested PLL techniques, the latest developments in integrated RF Technology and unique beacon search and anti-sideband (ASB) circuitry allows these receivers to re-acquire lock in all circumstances making them ideal for tracking highly inclined orbit satellites where Doppler shift causes lower quality Trackers to fail.

A low threshold of 43dBHz, fast re-acquisition of less than 1s and high linearity make Novella's receivers the preferred choice for small antenna field deployable stations (C, X, Ku and Ka-band) requiring fast automatic satellite acquisition.

They are now the product of choice to track NATO/Skynet/DSCS BPSK modulated beacons and the ideal solution for SNG vehicles requiring fast automatic antenna deployment and satellite acquisition.

Novella Receivers are available with interface at 70/140MHz, L, S, C, X, Ku or Ka-band. They are also available in a variety of multiband packages.

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