

2016 Commercial Price List

ITS36S COHERENT RECEIVER SYSTEM

The **ITS36S** is a version of the [ITS33S](#) with expanded capabilities. Specifically, where all of the earlier ITS Receivers had a fixed sampling rate of 50 samples-per-second, the ITS36S has computer selectable sample rates of 50, 100, 200, 500, 1000 and 2000 samples-per-second. The sample rate of the A/D converter and the cutoff frequency of the anti-aliasing filter within the receiver are set with a parameter in a file read into the computer.

Physically it is identical to the ITS33S, the smaller and lighter version of the ITS30S three-band Receiver. All of the ITS series of receivers are descended from the ITS10S receiver originally developed in 1994 by NorthWest Research Associates. Like the ITS33S, this model was specifically developed to receive the three-frequency CERTO class beacons as well as all of the present two-frequency beacons. The ITS Coherent Receiver Systems are used for ionospheric research and are designed to measure ionospheric effects on signal phase and intensity from satellite beacons operating at 150, 400 and 1066.67 MHz (nominal).

Frequency coverage is approximately from -220 to +110 ppm, allowing coverage of the NIMS (OSCAR) satellites on both Operational and Maintenance frequencies, and the Geodetic and CERTO beacons operating at +80 ppm. This range also covers two of the Russian NavSat frequencies, 0 and -200 ppm.

The ITS36S is made to order, and so cost and time-savings can be realized if multiple units are ordered at the same time. **ITS36S** prices are as follows, and include Receiver, Antenna, Computer*, Cables & Software.

Quantity	Price (per unit)
1	\$23,400
2	\$22,200
3	\$21,000
4	\$18,800

*The receiver is operated through an associated Windows-based PC, and is intended to operate remotely and unattended. As an option, a Laptop computer can be substituted for the desktop for an additional \$500 per unit.

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