



ISU-8 OVERVIEW

ISU-8 Intergrated Switch Unit

ISU-8 Integrated Switch Unit with internal drivers is a sealed, integrated switching network, using passivated PIN diodes, thereby minimizing electrical parasitics. This along with other specialized modifications enables the ISU-8 switch to work over extremely wide bandwidths.

Ruggedly built, this switch is conservatively rated to ensure highly reliable operation. The ISU-8 incorporates a TTL PIN diode driver integrated with a solid state RF section and bias filtering circuits controlled by a high-speed USB bus (or optional LAN interface). The ISU-8 is ideally suited for ultra-high speed channel selection or pulse modulation (nearly 1000 switches per second with external controller) and was developed for all RF receiver systems such as the DRS-SS Nanoceptor receiver and tuner products to include the new 18 GHz frequency extender.

This is the smallest, fastest, and lightest port switcher ever built - and best of all it fits in the palm of your hand!



ISU-8 USB Version



ISU-8N Networked LAN version

Specifications

Frequency Range	2 MHz to 21GHz
Insertion Loss	<3.8 dB between 20 MHz to 21 GHz 2.2:1 max
VSWR	+23 dBm
RF Power	12 VDC
I/O Impedance	50 Ohms
RF Input / Outputs	8 / 1 Type SMA, female
Isolation	80 dB (TYPICALLY 82 dB)
RF Connectors	SMA Female
Switching Speed	~1 ms for ISU-8 (1us for ISU-8N)
Input Voltage	110/220 VAC Autoranging
Size	4.5" W x 4.75" D x 1.4" H for ISU-8 (3.3" W x 2.6" D x 2.2" H for ISU-8N)
Operating Temperature	0° to 70° C



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