

JB-6e Junction Box

Simple, reliable and compact Ethernet solution to Doppler acquisition.

JB-6e General Description

The JB-6e junction box is designed to provide a simple, compact and reliable solution to interfacing various instrumentation Doppler radars without compromising performance. At the heart of the JB-6e is a powerful MCU-FPGA system combined with a two channel 2.5 MHz, 16-bit A/D that provides outstanding performance and flexibility. The JB-6e performs signal conditioning, sampling and transfer over a 100 Mbps Ethernet link of up to two radar signals simultaneously. By using an internal ~32 MB FIFO buffer, the JB-6e can reliably process and transfer data for long periods of acquisition without compromising data integrity.

Streamlined Solution

One of the main objectives targeted by the JB-6e is to provide a simpler and lower cost solution. This objective is fulfilled in two ways. First, a small and robust enclosure makes the JB-6e easily carried around without being cumbersome, while offering the essential connection possibilities for acquisition hardware. Data transfer is implemented using a standard 100 Mbps Ethernet interface allowing the JB-6e to be used without any dedicated data acquisition hardware and therefore usable with any type of computer including laptops, independently of the operating system. The Ethernet connectivity also allows the end-user to make the JB-6e accessible through a wireless network if desired.

Flexible Performance

The internal MCU-FPGA system used by the JB-6e can also be programmed to any specific task that your experiments may require. Should you need to perform any specific digital processing, please let us know and we will be pleased to help you out



Specifications

ADC Resolution	16-bit
Signal Memory	30 MBytes
Connectivity Doppler	Ethernet 100Mbit/s
Antenna Inputs	2 Differential (±10Vpp max, analog)
Trigger Input	1 Analog standard (±10Vpp max, analog)
Trigger Output	1 TTL
Operating Temperature	+10 to +40degC
Supply	115Vac 60Hz 1.0A (North America Model) 230Vac 50Hz 0.5A (European Model)
Dimension	10cm x 37cm x 32cm 3.9" x 14.5" x 12.5"
Weight	5.2kg



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