



WBK10A™

8-Channel Analog Expansion Module



Compatibility: ✓ WaveBook

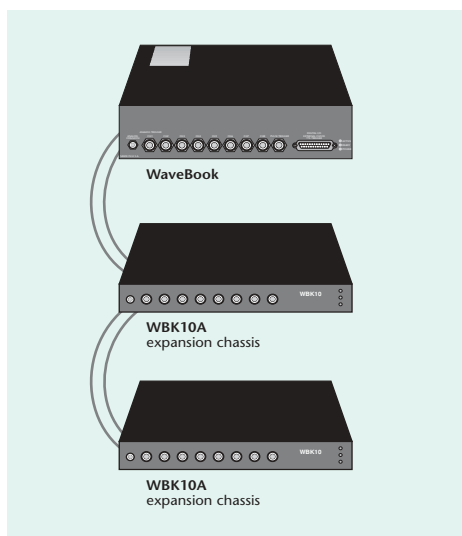
Features

- Adds eight differential voltage input channels to the WaveBook™
- Operates from 10 to 30 VDC
- Accepts one WBK11A™, WBK12A™, or WBK13A™ low-pass filter & simultaneous sample and hold option

The WBK10A™ provides seamless expansion of eight voltage channels on any WaveBook™ system. The WBK10A integrates automatically into existing systems for effortless expansion without compromising throughput or timing.

WBK10A functions as an integral part of the WaveBook data acquisition system, taking full advantage of its scan sequencer to control channel gains over all channels. As a result, all expansion channels can be randomly accessed and are available to contribute to multichannel triggering.

Like the WaveBook, the WBK10A can operate from a standard AC line, an optional rechargeable battery supply, a 12V car battery, or any 10 to 30 VDC supply.



The WBK10A has a small form factor, letting you expand your system without expanding your space requirements



The WBK10A adds eight differential analog inputs to your WaveBook system

Specifications (18° to 28°C)

Warm-up: 30 minutes to rated specifications
Environment
Operating: 0 to 50°C; 0 to 95% humidity, non-condensing
Storage: -20° to +70°C
Power: 0.35A @ 15V
Dimensions: 285 mm W x 220 mm D x 35 mm H (11" x 8.5" x 1.375")
Weight: 1.3 kg (2.8 lbs)
Connector: BNC
Channels: 8 differential
Maximum Overvoltage: 35 VDC
Ranges: Fully software selectable
Unipolar: 0 to ±10V, 0 to +5V, 0 to +2V, 0 to +1V
Bipolar: ±10V, ±5V, ±2V, ±1V, ±0.5V
Input Bandwidth: DC to 500 kHz
Input Impedance: 5M Ohm (single-ended); 10M Ohm (differential) in parallel with 30 pF
Total Harmonic Distortion: -84 dB (DC to 20 kHz)
Anti-Alias Filter
Type: 5 pole Butterworth; 20 kHz low pass software enabled*
Power: 0.35A @ 15V

Accuracy & Noise		
Range	Accuracy	Noise (rms)
0 to 10V, 0 to 5V	±0.012% reading; ±0.009% range	2 LSB
0 to 2V	±0.012% reading; ±0.012% range	3 LSB
0 to 1V	±0.012% reading; ±0.018% range	3 LSB
±10V, ±5V, ±2V	±0.012% reading; ±0.009% range	2 LSB
±1V	±0.018% reading; ±0.012% range	3 LSB
±0.5V	±0.018% reading; ±0.018% range	5 LSB

Ordering Information

Description	Part No.
8-channel expansion module including AC adapter and cables	WBK10A
Accessories & Cables	
Rack mount kit	RackDBK2
5-pin male DIN to 5-pin male DIN provides convenient connection between WaveBook power input connectors and DBK30A (also used to daisy-chain input power to expansion modules)	CA-115
CE Compliant Cables	
1 male BNC to male BNC	CA-150-1
8 male BNC to male BNC	CA-150-8

For complete information on accessories and cables, visit www.iotech.com/acc

Related Products

WaveBook Series	p. 17
WBK11A	p. 36
WBK12A	p. 37
WBK13A	p. 37
WBK61	p. 56
WBK62	p. 56

* See WBK12A or WBK13A for other filter options