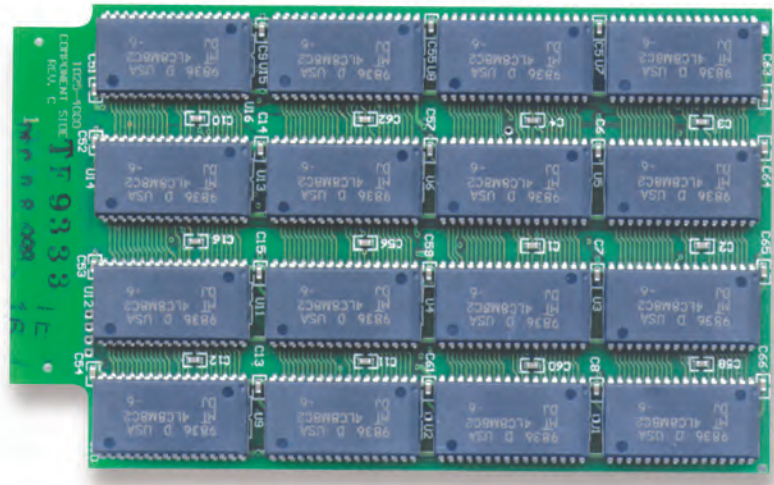# WBK30
Memory Option

Features

- **Allows full-speed sampling with resource-limited PCs**
- **Frees PC resources for other tasks**
- **Transparent operation**

The WBK30** option for WaveBook and ZonicBook systems allows high-speed, deep-data collection, independent of PC resources such as memory allocation, disk, processor, or parallel port speeds.

There are several benefits of the WBK30. First, as a FIFO the WBK30 circumvents limited PC resources. If a PC's communication port or disk are too slow to sustain the 1 Msample/s rate of the WaveBook or ZonicBook, the WBK30 can act as a large FIFO, accepting data at full speed and then transferring it to the PC at its slower rate. This can continue until the WBK30 memory becomes full or the test is complete, whichever is sooner. The deeper the WBK30 option memory, and the faster your port, the longer the acquisition time.

In addition, the WBK30 can act as a storage buffer. In this mode, all data is recorded to the WBK30 initially with transfers to the PC only upon completion of the test. While waiting for the acquisition to finish, the PC is almost completely unburdened and free to perform other tasks.

The table to the right will assist in matching the WBK30 to expected recording time needs and current hard drive capacity. To use this table, first compute the WBK30 filling rate by subtracting the estimated port transfer speed from the aggregate sample rate. Find this value in the "Fill Speed" column. The recording times and total bytes acquired are found under the respective WBK30 option. For example, if an aggregate sample rate is 600 Ksample/s and the port data transfer rate is 400 Ksamples/s, then a WBK30/128 would enable a recording time of 5 minutes, 58 seconds and require 671.1 Mbytes (approximately 335 Msamples) of free disk space on a PC for storage.

The WBK30 memory accessory expands internal data FIFO

WBK30 Effective Storage Capacity*		
WBK30 Fill Speed	**WBK30/128**	
(Aggregate Rate – Port Speed) Ksample/s	Time	File Size (Mbytes)
1000	1 min 7 sec	134.2
900	1 min 15 sec	149.1
800	1 min 23 sec	167.8
700	1 min 36 sec	191.7
600	1 min 52 sec	223.7
500	2 min 14 sec	268.4
400	2 min 48 sec	335.5
300	3 min 44 sec	447.4
200	5 min 58 sec	671.1
100	11 min 11 sec	1342.2

* Assumes 2 byte sample length

Ordering Information

Description	Part No.
128-Mbyte memory option (64 Msamples)	WBK30/128

Product Compatibility

✔ WaveBook
✔ ZonicBook

Note: The WBK30 is supported in the 32-bit driver only.

** Factory installed only