



Technical Comparison

GEN5i VS ODYSSEY COMPARISON



The GEN5i supersedes the Odyssey in most specifications while being smaller, lighter and more robust

Internal PC and physical characteristics

	Odyssey	GEN5i	Benefits
Size (W x H x D)	47 cm x 24 cm x 56 cm (18.5 x 9.5 x 22 inches)	45 cm x 33 cm x 36 cm (17.7 x 13 x 14.25 inches)	Easier to handle
Volume	63168 cm ³	53460 cm ³	15 % less volume
Weight (full)	~23 kg	~20 kg	10 % less weight
Screen size and resolution	10 inch; 640 x 480 / 800 x 600	17 inch; 1280 x 1024	~ 3 times more information displayed
Processor and operating system	PII / III; Windows 95/98	DualCore; Windows Vista 64-bit	Latest OS; good for 5 years+
PC motherboard	Industrial slot PC	Standard motherboard	Easy upgrades later
Expansion slots	2 ISA	2xPCI, 1xPCIe, all 1/2 length	Up-to-date expansion
Connectivity	Ethernet, USB 1.1	Ethernet, WLAN, LAN, USB2.0, DVD-RW, optional removable HD	Up-to-date connectivity; good for safety critical application

Data acquisition characteristics			
	Odyssey	GEN5i	Benefits
Acquisition slots	4 acquisition & 8 amplifier slots	5 slots for input modules	25 % more
Channel count	32 slow speed DC or 32 physical inputs or 16 high speed inputs	40 slow speed DC or 20 physical inputs or 20 high speed inputs	25 % more channels (except physical inputs)
Sample rates	100 kS/s or 10 MS/s or external (50 kHz)	200 kS/s / 1 MS/s or 25 MS/s / 100 MS/s or external (500 kHz)	More capabilities and 10 x faster
Hard Disk capacity	2 - 32 GB max	1200 GB standard	40 x more room for your data
Streaming rate to hard disk	3.2 MS/s with OD100 8 MS/s with OD200	28 MS/s	Up to 30 x faster streaming
Transient memory	Up to 40 MSamples	Up to 9000 MSamples	200 x more
Pretrigger	Limited to 20kS with OD100	Limited by RAM or HD capacity only	Unlimited pretrigger acquisitions
On-board software	Acquisition and Playback only	Acquisition, playback, Analysis, Reporting, Basic FFT	All in one approach; 64-bit software
Input modules	DC, Iso DC, Bridge, ICP, TC, High Speed Diff	DC, Iso DC, Iso Bridge, Iso ICP, High Speed Diff	All amplifiers are higher accuracy and performance
Accuracy	Most amplifiers are 0.25 % typical	Most amplifiers are 0.1 % typical	Get more signal details
Filters	Limited, software in OD100 Limited, hardware in OD200	Full selection of time or frequency domain optimized filters	Select the best filter for your application
Storage location	embedded SCSI drives; data transfer needed to access data	any PC storage location incl. removable HD, network or USB drive	Stored data is available immediately without transfer or conversion

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