High Speed Data Acquisition System
DAS1800

Manufacturer		B&K Precision	AstroNova	Yokogawa	Hioki
Model		**DAS1800**	**TMX**	**DL950**	**MR6000**
					
US$ List price, base unit		**$14,180**	-	-	-
Base unit					
Number of Module Slots		10 slots	3 slots, up to 6 (option)	8 slots	8 slots
Digital channels	Inputs	16	16	Sold as a module	Sold as a module
	Built-in Outputs	12 VDC supply (x1), Alarms: 5 V TTL (x4)	Low voltage TTL (x1)	-	-
Dedicated Power Supply Outputs		Up to 4 (3.3 V, 5 V, 12 V, 24 V)	-	Option	Option
Memory		1 TB SSD (2 TB option)	1 TB SSD	1 Gpoint, 8 Gpoint (option), 512 GB SSD (option)	1 Gword, 256 GB SSD (option)
Interface		USB 3.0 (x2), USB 2.0 (x2), LAN 1 Gbps (x2), HDMI	USB host (x8), LAN (x2), VGA	USB 2.0 (x2), USBTMC (x1), LAN 1 Gbps (x1), XGA- compliant video output, 10 G LAN (option)	USB 3.0 (x3), USB 2.0 (x4), DVI, LAN
Display		15.6" Full HD touchscreen (1920 x 1080)	17" resistive touchscreen (1280 x 1024)	12.1" TFT LCD touchscreen	12.1" touchscreen
Battery Life		Up to 3.5 hours (option)	-	-	-
Weight		13.9 lbs (6.3 kg) mainframe only	22 lbs (10 kg) mainframe only	16.5 lbs (7.5 kg) mainframe only	14.33 lbs (6.5 kg) mainframe only
Dimensions		19.5" x 11" x 7.87" (485 x 280 x 200 mm)	19" x 14.5" x 7.5" (483 x 368 x 191 mm)	14.8" x 10.2" x 8" (375 x 259 x 202 mm)	13.9" x 9.25" x 6.09" (353 x 235 x 154.8 mm)
Synchronization		GPS/IRIG (option), IEEE1588 (option)	IRIG/GPS (option)	GPS/IRIG (option), IEEE1588 (option)	-
Auxiliary I/O	External Trigger	✔	✔	✔	✔
	External Start/Stop	✔	✔	✔	✔
Modules					
Number of Channels on Modules		4 or 8	6, 12, or 16	2, 4, or 16	2, 4, or 16
Fastest Sampling Rate		1 MSa/s	800 kSa/s	200 MSa/s	200 MSa/s
Maximum Bandwidth		100 kHz	60 kHz	40 MHz	30 MHz
Maximum Input Voltage		1500 VDC or 1000 VRMS	1000 VDC	200 V (DC + Acpeak)	1000 VDC or 700 VAC
Maximum ADC Resolution		18 bit	16 bit	16 bit	24 bit
Supported Measurement Types	Voltage	✔	✔	✔	✔
	Current	✔	✔	✔	✔
	Resistance	✔	✔	✔	✔
	Temperature	✔	✔	✔	✔
	Frequency	✔	✔	✔	✔
	Counter	✔	✔	✔	✔
	PWM	✔	✔	✔	✔

Technical data subject to change
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Prices listed as of 04-16-2026