High Speed Data Acquisition System
DAS1800

Manufacturer		B&K Precision		AstroNova	Yokogawa	Hioki
Model		**DAS1800**	**DAS1700**	**TMX**	**DL950 (NEW)**	**MR6000**
						
US$ List price, base unit		**$12,990**	**$11,590**	**-**	**-**	**-**
Base unit						
Number of Module Slots		10 slots	3 slots (standard), up to 6 (option)	3 slots, up to 6 (option)	8 slots	8 slots
Digital channels	Inputs	16	16	16	Sold as a module	Sold as a module
	Built-in Outputs	12 VDC supply (x1), Alarms: 5 V TTL (x4)	9 to 15 VDC supply (x1), Alarms: 5 V TTL (x2), voltage free contact relay (x1)	Low voltage TTL (x1)	-	-
Dedicated Power Supply Outputs		Up to 4 (3.3 V, 5 V, 12 V, 24 V)	-	-	Option	Option
Memory		2 TB SSD	500 GB 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 (x4), VGA, LAN	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)	15.6" TFT LCD touchscreen (1366 x 768)	17" resistive touchscreen (1280 x 1024)	12.1" TFT LCD touchscreen	12.1" touchscreen
Battery Life		Up to 3.5 hours (option)	Up to 2 hours (option)	-	-	-
Weight		13.9 lbs (6.3 kg) mainframe only	17.64 lbs (8 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)	18.6" x 10.7" x 6.1" (472 x 271 x 154 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		Future release: GPS/IRIG (option), IEEE1588 (option)	GPS/IRIG (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 or 12	6, 12, or 16	2, 4, or 16	2, 4, or 16
Fastest Sampling Rate		1 MSa/s	1 MSa/s	800 kSa/s	200 MSa/s	200 MSa/s
Maximum Bandwidth		100 kHz	100 kHz	60 kHz	40 MHz	30 MHz
Maximum Input Voltage		600 VDC or 424 VRMS Future release: 1000 VDC or 1000 VRMS	1000 VDC or 1000 VRMS	1000 VDC	200 V (DC + Acpeak)	1000 VDC or 700 VAC
Maximum ADC Resolution		18 bit	16 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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