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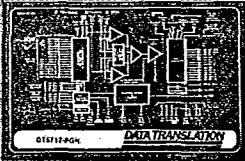
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# DATA ACQUISITION MODULES

## D/A CONVERTER MODULES

T-51-10-12  
T-51-10-16

	MODEL	OUTPUT CHANNELS	SETTLING TIME ( $\mu$ S)	OUTPUT RANGES	FEATURES	PAGE	PRICE
8-Bit	DT215	4	35	0-10V, $\pm 10$ V	4-20mA output 8 $\mu$ s settling options	18-5	\$ 335 or \$ 400
12-Bit	DT212	2	3	0-10V, $\pm 5$ V, $\pm 10$ V	High Speed Point Plotter	18-5	\$ 395
	DT214	4	35	0-10V, $\pm 10$ V	4-20mA Output	18-5	\$ 395 or \$ 525
	DT214-H	4	8	0-10V, $\pm 10$ V	High Speed	18-5	\$ 395
	DT214-CL	4	35	4-20mA	Current Loop	18-5	\$ 525
16-Bit	DT216	2	10	$\pm 10$ V	Deglinted, Differential Outputs	18-5	\$ 695

### DT5713

12-bit resolution and accuracy. 16SE/8DI inputs, high or low level programmable gain, 40kHz throughput. Specify DT5713-PGH for programmable gains of 1, 2, 4, and 8. Specify DT5713-PGL for programmable gains of 1, 10, 100, and 500.

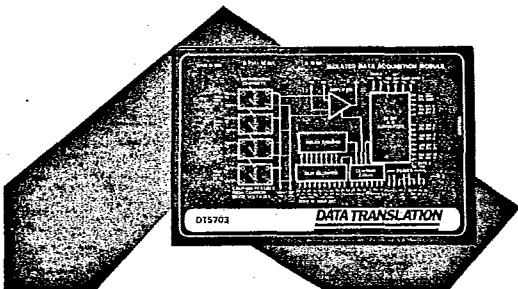
### DT5703

#### Isolated-High CMV ( $\pm 250$ V)

10mV to 10V FSR, 4DI, 12-bit.

#### Options for DT5703

- $\pm 12$ V power supply option rather than  $\pm 15$ V operation, FSR = 0-5V,  $\pm 5$ V, specify "/12V"
- DT12-10501-2 Precision Resistor Gain Selection Kit
- Binary range, FSR =  $\pm 10.24$ V, 0 to 10.24V, specify "-BR"
- 1-5V input range (-M)



M-4224

Figure 18-2. DT5703 is a four-channel isolated 12-bit data acquisition module offering low level wide range capability from 10mV to 10V full scale ranges despite up to 250V of common mode voltage.

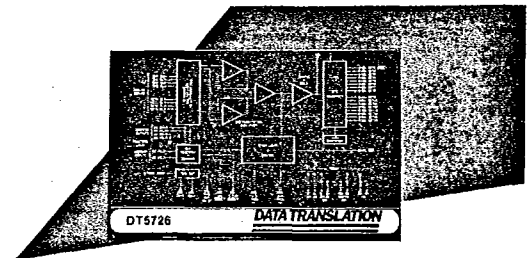
### DT03-EX

Low level, isolated 8DI channel expansion for DT5703.

### DT5726

#### High Resolution

16-bit resolution and accuracy @ 100kHz throughput, 4DI inputs,  $\pm 10$ V FSR.



M-4225

Figure 18-3. DT5726 combines 16-bit high resolution A/D with high throughput speed of 100kHz per channel. Ideal for audio applications.

### DT5716A-DI-B

16-bit resolution and accuracy @ 20kHz throughput, 8DI input channels, 5mV to 10V FSR, and bipolar operation.

#### Options for DT5716A

- High Level Programmable Gain Amplifier Option with gains of 1, 2, 4, and 8 (-PGH)
- Low Level Programmable Gain Amplifier Option with gains of 1, 10, 100, and 500 (-PGL)
- DT13-10501-4 Precision Resistor Gain Selection Kit

Data Translation, Inc. 100 Locke Drive, Marlboro, MA USA 01752 (617) 481-3700

Data Translation Ltd., The Business Centre, Wokingham, Berks RG11 2QZ, U.K., Tel Reading (0734) 793838

T-51-10-12  
T-51-10-16

**HARDWARE, CHARTS**

**A/D CONVERSION MODULES**

	MODEL	CLASS	INPUT CHANNELS	THROUGHPUT (kHz)	PROGRAMMABLE GAIN	INPUT RANGES	PAGE	PRICE
12-Bit	DT5712	General Purpose, Low Level	16SE/8DI Wide Range	40	1,2,4,8 or 1,10,100,500	Selectable 10mV to 10V	18-2	\$ 345 to \$ 510
	DT5713	General Purpose, Programmable Gain	16SE/8DI Wide Range	40	1,2,4,8 or 1,10,100,500	0 to 1.25V, 2.5V,5V,10V ± 1.25V, 2.5V,5V,10V	18-3	\$ 425 to \$ 480
	DT5725	150kHz Throughput, Programmable Gain	16SE/8DI High Level	150	1,2,4,8	0 to 1.25V, 2.5V,5V,10V ± 1.25V, 2.5V,5V,10V	18-4	\$ 695
	DT5722	250kHz Throughput	16SE/8DI High Level	250	1,2,4,8	0 to 1.25V, 2.5V,5V,10V ± .625V,1.25V, 2.5V,5V,10V	18-4	\$1,595 or \$1,785
	DT5727	250kHz Throughput, Programmable Gain	16SE/8DI High Level	250	1,2,4,8	0 to 1.25V, 2.5V,5V,10V ± .625V,1.25V, 2.5V,5V,10V	18-4	\$1,695
	DT5732	750kHz Throughput	4DI High Level	750	—	± 5V	18-4	\$1,995
	DT5703	Isolated Low Level	4DI Wide Range	40Hz	—	10mV to 10V	18-3	\$ 550 to \$ 680
	DT5704	Simultaneous Sample and Hold	4SE High Level	100	—	0 to 10V ± 10V	18-4	\$ 795
16-Bit	DT5716A	Medium Speed	16SE/8DI Wide Range	20	1,2,4,8 or 1,10,100,500	Selectable 5mV to 10V	18-3	\$1,195 to \$1,385
	DT5726	High Speed 16-Bit	4DI High Level	100	—	± 10V	18-3	\$1,595

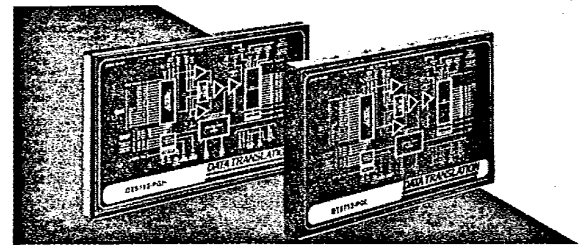
**DATA II DATA ACQUISITION MODULES**

**DT5712**  
*Low Cost, Low Level, Wide Range*  
10mV to 10V, FSR, 8DI or 16SE, 12-bit.

**Options for DT5712**

- **High Level Programmable Gain Amplifier Option with gains of 1, 2, 4, and 8 (-PGH)**
- **Low Level Programmable Gain Amplifier Option with gains of 1, 10, 100, and 500 (-PGL)**
- **DT12-10501-2 Precision Resistor Gain Selection Kit**
- **Binary range, FSR = ± 10.24V, 0 to 10.24V, specify "-BR"**

- **± 12V power supply option rather than ± 15V operation, FSR = 0-5V, ± 5V, specify "/12V"**
- **1-5V (for 4-20mA) input range (-M)**



*Figure 18-1. DT5712-PGL is a low level, wide range 12-bit data acquisition module offering software programmable full scale ranges of 20mV, 100mV, 1V, and 10V. DT5712-PGH is a general purpose 12-bit high level data acquisition module offering software programmable input ranges of 1.25V, 2.5V, 5.0V, and 10V.*

M-4223

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18-2



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