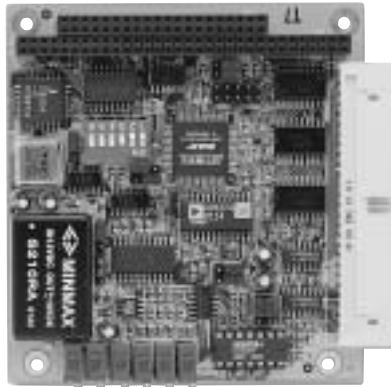


AX10410A

High Speed Data Acquisition Module



AX10411

16 Channel Data Acquisition Module



PC/104 Expansion Modules

FEATURES

- ▶ 16 S.E. or 8 differential analog inputs with 12-bit resolution
- ▶ Max. up to 100KHz sample rate via DMA mode
- ▶ 2-channel D/A output
- ▶ 8-bit TTL/DTL compatible I/O
- ▶ 1-channel counter/timer
- ▶ Support Windows® 95/98/NT/2000 driver
- ▶ Support Labview 7.0 driver

Analog Input Subsystem

Number of Inputs	16 S.E. or 8 D.I.
Resolution	12-bit
Gain	1, 2, 4, 8
Input Ranges	Unipolar: 0-1.25, 2.5, 5, 10V Bipolar: ±1.25, 2.5, 5, 10V
Sampling Rate	100KHz max.
System Accuracy (Gain=1)	±0.03% FSR
Channel Acquisition Time	to ±1/2 LSB; Gain = 1, 2, 4, 8
A/D Conversion Time	10µs
Input Impedance	Off channel: 100MΩ, 20pF On channel: 100MΩ, 20pF
Max. Input Voltage without damage	Power on: +35V Power off: ±20V
Common Mode Rejection Ratio	Gain = 1: 90dB
Integral Nonlinearity	±1 LSB
No. of Interrupt	1
Channel of DMA	1 or 3

Analog Output Subsystem

No. of Channel	2
Output Ranges	5V or 0 to +10V, internal reference supplied
Current Output Capacity	+5mA max.

Digital I/O Subsystem

Digital Input Lines	8
Digital Output Lines	8
Logic Family	LSTTL
Input/Output Level	TTL/DTL compatible

Counter/Timer Subsystem

Type	Programmable interval timer counters three 16-bit down counters
Clock Input	D.C. to 10MHz
Input Level	TTL, DTL CMOS compatible
Output Range	2.5MHz to 72 minutes/pls

Physical/Environmental

Dimensions (L x W)	96 x 90mm
Weight	130g
Relative Humidity	20 to 90%, non-condensing

Packing List

Manual, utility & basic/C/pascal/Windows® drivers CD
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ORDERING INFORMATION

Standard	AX10410A AX10410A module
Optional	
AX750	Screw terminal panel for A/D, D/A and D I/O signal
AX752	16-channel multiplexer & amplifier panel
AX757	8-channel relay output & optoisolated D/I panel
AS59099	DOS, Windows® 3.1/95/98/NT DDL driver and device utility CD
AS59080	ActiveX control driver, 3 rd party drivers (LABTECH, Labview, DasyLab) and OPC server

FEATURES

- ▶ 16 S.E. analog inputs with 12-bit resolution
- ▶ Max. throughput 12.5KHz
- ▶ Support Windows® 95/98/NT/2000 driver
- ▶ Support Labview 7.0 driver

Analog Input Subsystem

Number of Inputs	16 single end
Resolution	12-bit
Maximum Throughput	12.5KHz
A/D Conversion Time	10 S max.
Channel Acquisition Time	5 S max.
System Accuracy	-0.03% FSR
Input Ranges	-5V, -2.5V, -1.25V, -0.625V, -0.3125V, all ranges are software selectable
Output Coding	Offset binary
Max. Input without damage	Power on: -30V Power off: -45V
Input Impedance	Off channel: 100M% _Ω On channel: >10M% _Ω
Nonlinearity	-1 LSB
Differential Nonlinearity	-1 LSB
Inherent Quantizing Error	-1 LSB
Zero Drift	Bipolar: 17ppm of FSR/ °C
Gain Drift	30ppm of FSR/ °C
Monotonicity	Monotonic 0 to +70°C
Bias Current	-100nA

Digital I/O Subsystem

Digital Input Lines	8
Digital Output Lines	8
Improved Noise Margins	Hysteresis VT+ - VT- = 0.4typ.
Input/Output Level	TTL/DTL compatible

Onboard Clock

Base Frequency	4MHz
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Physical/Environmental

Dimensions (L x W)	96 x 90mm
Weight	185g
Relative Humidity	20 to 90%, non-condensing

Packing List

Manual, utility & basic/C/pascal/drivers CD

ORDERING INFORMATION

Standard	AX10411 AX10411 module
AX750	Screw terminal panel for A/D, D/A and D I/O signal
AX752I	16-channel relay isolated Multiplexer/amplifier module
AX752	16-channel multiplexer/amplifier module
AX757	8-channel relay output & optoisolated D/I panel
AS59099	DOS, Windows® 3.1/95/98/NT DDL driver and device utility CD
AS59080	ActiveX control driver, 3 rd party drivers (LABTECH, Labview, DasyLab) and OPC server

* All the specifications and photos are subjected to be changed without notice.