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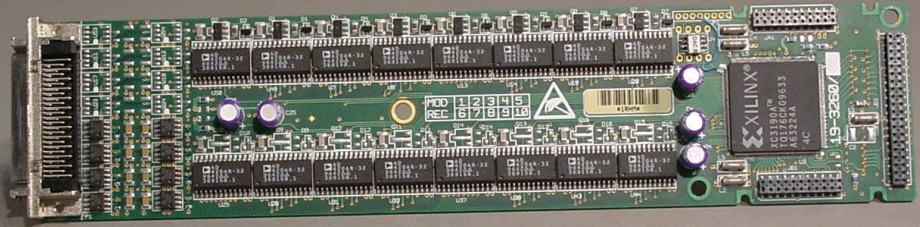
3510

16-CH.

DAC

FUNCTION

CARD



- 16 Independent Digital-to-Analog Converters
- 16-bit Resolution
- Seven different Output Ranges available
- Voltage and/or Current Output Versions
- Flexible Triggering
- Up to 128 DAC Channels per VXIbus Slot

POWER

The ProDAQ 3510 Digital-to-Analog Converter Function Card is one of the ProDAQ high density cards, which can be fitted into the ProDAQ Motherboards. ProDAQ modules are the most versatile VXIbus modules in the market. They provide the user with the highest channel density and functionality available today.

This high density card contains 16 independent, 16-bit DAC channels. Each channel is equipped with his own DAC. The ProDAQ 3510 DAC Function Card is specially designed for DC, low frequency and current loop applications.

There are seven different standard versions of the ProDAQ 3510 available, six different voltage versions with either 0 to +5V, 0 to +10V, 0 to +20V, $\pm 5V$, $\pm 10V$ or ± 20 Volt and one current

version with 4-20 mA, 0-20 mA or 0-24 mA. Other output ranges are available on request.

All voltage outputs have continuous short circuit protection. All current outputs have an over-voltage protection. If high current is used on multiple channels the number of DAC cards that can be installed into one motherboard module may be restricted due to the supply limitations in the VXIbus power specifications.

ProDAQ modules provide compability with all current popular software environments and allow users to safely and simply expand their existing hardware and software systems.

The ProDAQ 3510 DAC Function Card is supplied with *VXIplug&play* drivers for the WIN95 and WINNT frameworks.



Number of Outputs	16												
Resolution	16 bit												
3510-Ax/-Bx (Voltage Versions)													
Output Range	0-5V, 0-10V, 0-20V, $\pm 5V$, $\pm 10V$, $\pm 20V$												
Output Current	5 mA per channel												
Output Filter Cut-off Freq.	280Hz												
Output Impedance	< 0.05 Ω max.												
Settling Time	< 5 msec to 0.1% FSR (resistive load)												
Offset	< 1mV typical (Calibrated)												
Accuracy	< $\pm(0.01\%$ Setting + 1.5 LSB)												
Current Consumption	<table border="1"> <thead> <tr> <th>Voltage (V)</th> <th>Current (mA)</th> </tr> </thead> <tbody> <tr> <td>+24</td> <td>TBD</td> </tr> <tr> <td>+12</td> <td>TBD</td> </tr> <tr> <td>+5</td> <td>TBD</td> </tr> <tr> <td>-12</td> <td>TBD</td> </tr> <tr> <td>-24</td> <td>TBD</td> </tr> </tbody> </table>	Voltage (V)	Current (mA)	+24	TBD	+12	TBD	+5	TBD	-12	TBD	-24	TBD
Voltage (V)	Current (mA)												
+24	TBD												
+12	TBD												
+5	TBD												
-12	TBD												
-24	TBD												
3510-CC (Current Version)													
Output Range	0-20mA, 0-24mA (Overrange Function), 4-20mA												
Current Loop Voltage Compliance	21.5V												
Output Filter Bandwidth	100Hz												
Output Impedance	25M Ω												
Output Protection	Diode clamped to +24V and Ground												
Settling Time	3.5 msec with 500 Ω (load dependent)												
Offset	+9 μ A typical												
Accuracy	0.16% typical (FSD)												
Output Nonlinearity	0.012% max												
Current Consumption	<table border="1"> <thead> <tr> <th>Voltage (V)</th> <th>Current (mA)</th> </tr> </thead> <tbody> <tr> <td>+24</td> <td>80</td> </tr> <tr> <td>-24</td> <td>80</td> </tr> <tr> <td>+5</td> <td>120</td> </tr> </tbody> </table>	Voltage (V)	Current (mA)	+24	80	-24	80	+5	120				
Voltage (V)	Current (mA)												
+24	80												
-24	80												
+5	120												
Connectors	50-pin SCSI female												
Dimensions	230mm x 53mm												
Weight	79g												
Operating Temperature	0° C to 50° C												
Storage Temperature	-40° C to 70° C												
Warm-up Time	< 30 minutes												
Software Support	VXI <i>plug&play</i> driver for the WIN95, WINNT frameworks and the Linux OS												
Configuration	Cards can be factory installed or field installed by user												
Warranty Period	12 month standard; extended periods available at additional cost.												

Ordering Information:

- 3510-AA 16-Ch. DAC, 0-5 Volt
- 3510-AB 16-Ch. DAC, 0-10 Volt
- 3510-AC 16-Ch. DAC, 0-20 Volt
- 3510-BA 16-Ch. DAC, ± 5 Volt
- 3510-BB 16-Ch. DAC, ± 10 Volt
- 3510-BC 16-Ch. DAC, ± 20 Volt
- 3510-CC 16-Ch. DAC, Current Output

Related Products:

- 3120-AA Standard Motherboard
- 3150-AA High-Performance Motherboard
- 5010-AA Signal Conditioning Unit
- 5421-AA Terminal Card, Direct-I/O
- 8010-XX SCSI Cable
- 8011-XX SCSI Cable

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3510-XX-DS-0200

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