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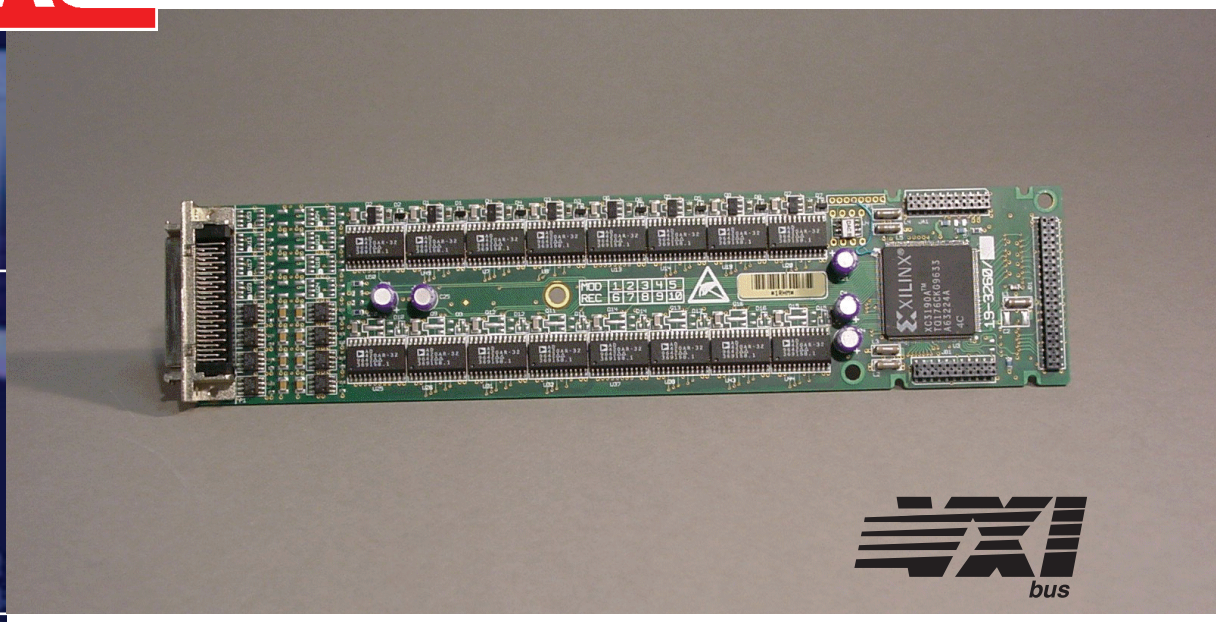
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Find the *Astronics / EADS / Racal 3510 ProDAQ* at our website: ***Click HERE***

ProDAQ

ADVANCED VXI DATA ACQUISITION SYSTEMS



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, ±5V, ±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.

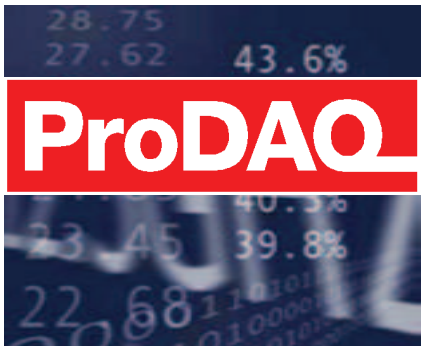
All voltage outputs have continuous short circuit protection. All current outputs have an overvoltage protection. If high current is used on multiple channels the number of DAC cards that can be installed into one motherboard module may be restricted due to the supply limitations in the VXIbus power 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 VXI*plug&play* drivers for the WIN95 and WINNT frameworks.

bustec

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Number of Outputs	16
Resolution	16 bit
3510-Ax/-Bx (Voltage Versions)	
Output Range	0-5V, 0-10V,0-20V, ±5V, ±10V, ±20V
Output Current	5 mA per channel
Output Filter Cut-off Freq.	280Hz
Output Impedance	< 0.05Ω max.
Settling Time	< 5 msec to 0.1% FSR (resistive load)
Offset	< 1mV typical (Calibrated)
Accuracy	< ±(0.01% Setting + 1.5 LSB)
Current Consumption	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	25MΩ
Output Protection	Diode clamped to +24V and Ground
Settling Time	3.5 msec with 500Ω (load dependent)
Offset	+9μA typical
Accuracy	0.16% typical (FSD)
Output Nonlinearity	0.012% max
Current Consumption	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*plug&play* 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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Bustec Production Ltd.
World Aviation Park
Shannon, Co. Clare
Rep. of Ireland
t +353 61 707 100
f +353 61 707 106
e sales@bustec.ie
w www.bustec.ie

Bustec, Inc.
35486 Lorain Road
North Ridgeville
OH 44039, U.S.A.
t +1 440 327 8930
f +1 440 327 8982
e sales@bustec.com
w www.bustec.com

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