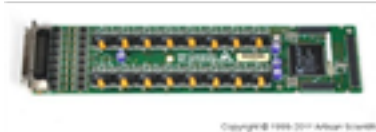


Racal 3510 ProDAQ
DAC Function Card



In Stock

Used and in Excellent Condition

Open Web Page

<https://www.artisanng.com/75845-1>

All trademarks, brandnames, and brands appearing herein are the property of their respective owners.



Your **definitive** source
for quality pre-owned
equipment.

Artisan Technology Group

(217) 352-9330 | sales@artisanng.com | artisanng.com

- Critical and expedited services
- In stock / Ready-to-ship

- We buy your excess, underutilized, and idle equipment
- Full-service, independent repair center

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

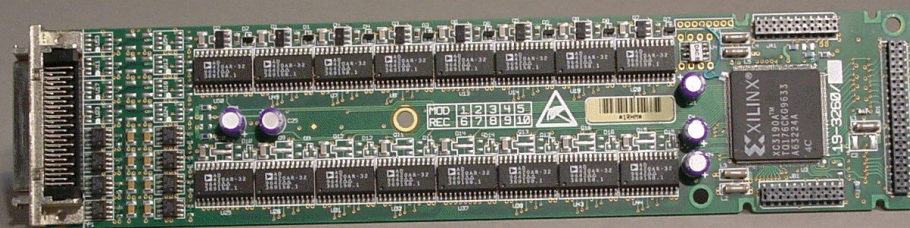
3510

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.



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 |

This datasheet is copyright of Bustec Production Ltd. All trademarks and registrations are acknowledged. The technical information herein is subject to change without notice.

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



3510-XX-DS-0200

| Number of Outputs | 16 | | | | | | | | | | | | |
|---------------------------------------|--|-------------|--------------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| Resolution | 16 bit | | | | | | | | | | | | |
| 3510-Ax/-Bx (Voltage Versions) | | | | | | | | | | | | | |
| Output Range | 0-5V, 0-10V, 0-20V, ± 5 V, ± 10 V, ± 20 V | | | | | | | | | | | | |
| Output Current | 5 mA per channel | | | | | | | | | | | | |
| Output Filter Cut-off Freq. | 280Hz | | | | | | | | | | | | |
| Output Impedance | $< 0.05\Omega$ max. | | | | | | | | | | | | |
| Settling Time | < 5 msec to 0.1% FSR (resistive load) | | | | | | | | | | | | |
| Offset | < 1 mV typical (Calibrated) | | | | | | | | | | | | |
| Accuracy | $< \pm(0.01\%$ Setting + 1.5 LSB) | | | | | | | | | | | | |
| Current Consumption | <table> <tr> <th>Voltage (V)</th><th>Current (mA)</th></tr> <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> </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> <tr> <th>Voltage (V)</th><th>Current (mA)</th></tr> <tr> <td>+24</td><td>80</td></tr> <tr> <td>-24</td><td>80</td></tr> <tr> <td>+5</td><td>120</td></tr> </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 | VXIplug&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. | | | | | | | | | | | | |

Visit our WEB pages at www.bustec.ie !

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at [artisanTG.com](https://www.artisanTG.com) for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisanTG.com | [artisanTG.com](https://www.artisanTG.com)

