

ARTISAN®
TECHNOLOGY GROUP

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

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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

Visit our website - *Click HERE*

The Wayback Machine - https://web.archive.org/web/20150908102742/http://www.hytec-electronics.co.uk/DescriptionPage...

HYTEC ELECTRONICS LTD.
Data Acquisition and Control Systems
Tel: +44 (0)118 9757770
Fax: +44 (0)118 9757566

Sidebar

Technical Spec Table

Manual

Software Downloads

Ordering Options

Release Notes

Ask a Question

Product Catalogue

Related Products

Analogue Output/Input Transition Board VTB 8208

Product Description



The VTB 8208 is a 6U (double height) transition board. Its main features are:

- 16 summing amplifiers to provide 16 high resolution outputs using two DAC8402 IP cards.
- Adjacent DAC channels are summed with a 50:1 ratio.
- Allows outputs to be sensed by two ADC8401 or MADC8403 IP cards

Two 50-way connectors (A and B) provide 16 summed outputs with feedback sense wires. A third connector (C) allows direct input to

- two ADC cards. On-board jumpers allow isolation of the ADC inputs from the sense lines of connectors A and B
- Excitation,D.C. or pulsed, from MADC8403.
- On-board DC-DC converters supply output summing amplifiers
- On board calibration.

Target Specification

- Mechanical: Standard 6U high VME64X transition board
- Operating temp: 0 to 45 deg C ambient
- Number of channels: 16 summed outputs/16 differential inputs
- Input/output voltage range: 0 to +10V
- Input impedance: Set by resistor selection. Nominally 20K.
- Acquisition time: 100ms
- Switch time: 10us when enabled
- Excitation: 1mA or 5V supplied by 8403
- ADC Isolation: 100V with respect to VME 0V limited by 8403
- Power: +5V @ 2.5A typical

Operating Modes

There are three basic operating modes which can be combined to requirements:

- 1)Summed DAC outputs allow one DAC to set a value which is fine trimmed by a second DAC
- 2)ADC inputs allow outputs from connectors 1 and 2 to be sensed and read back.
- 3)ADC inputs direct from connector 3 allow direct use of the ADCs.

Excitation

Two forms of excitation are available:-

- 5V D.C.
- Programmable current source 0 to +1mA

Connectors

Three 50-way connectors A,B and C provide 16 single-ended voltage outputs and 16 differential inputs.

Pin Assignments

Connector A

Pin	Signal	Pin	Signal
1	AGND1	26	OUT1

2	-Sense1	27	+Sense1
3	AGND1	26	OUT2
4	-Sense2	27	+Sense2
5	AGND1	26	OUT3
6	-Sense3	27	+Sense3
7	AGND1	26	OUT4
8	-Sense4	27	+Sense4
9	AGND1	26	OUT5
10	-Sense5	27	+Sense5
11	AGND1	26	OUT6
12	-Sense6	27	+Sense6
13	AGND1	26	OUT7
14	-Sense7	27	+Sense7
15	AGND1	26	OUT8
16	-Sense8	27	+Sense8
17		42	
18	Xtrig +	43	Xtrig-
19		44	
20	XClk+	45	XClk-
21		46	
22		47	
23		48	
24	AGND1	49	AGND1
25	AGND1	50	AGND1

Connector B

Pin	Signal	Pin	Signal
1	AGND2	26	OUT1
2	-Sense9	27	+Sense9
3	AGND2	26	OUT1
4	-Sense10	27	+Sense10
5	AGND2	26	OUT1
6	-Sense11	27	+Sense11
7	AGND2	26	OUT1
8	-Sense12	27	+Sense12
9	AGND2	26	OUT1
10	-Sense13	27	+Sense13
11	AGND2	26	OUT1
12	-Sense14	27	+Sense14
13	AGND2	26	OUT1
14	-Sense15	27	+Sense15
15	AGND2	26	OUT1
16	-Sense16	27	+Sense16
17		42	
18	Xtrig +	43	Xtrig-
19		44	
20	XClk+	45	XClk-
21		46	
22		47	
23		48	
24	AGND2	49	AGND2
25	AGND2	50	AGND2

Connector C

Pin	Signal	Pin	Signal
1	Ch1 +	26	Ch1 -
2	Ch2 +	27	Ch2 -
3	Ch3 +	28	Ch3 -
4	Ch4 +	29	Ch4 -
5	Ch5 +	30	Ch5 -
6	Ch6 +	31	Ch6 -
7	Ch7 +	32	Ch7 -
8	Ch8 +	33	Ch8 -
9	Ch9 +	34	Ch9 -
10	Ch10 +	35	Ch10 -
11	Ch11 +	36	Ch11 -
12	Ch12 +	37	Ch12 -
13	Ch13 +	38	Ch13 -
14	Ch14 +	39	Ch14 -
15	Ch15 +	40	Ch15 -
16	Ch16 +	41	Ch16 -
17	Excitation3	42	Excitation 4

18	Xtrig 3+	43	Xtrig3-
19	Xtrig4+	44	Xtrig4-
20	XClk3+	45	XClk3-
21	XClk4+	46	XClk4-
22	DGND3	47	DGND4
23	+5VA3	48	+5VA4
24	AGND3	49	AGND4
25	AGND3	50	AGND4

nqa. ISO 9001 Registered Quality Management

Hytec Electronics have been providing control and data acquisition systems solutions for over 35 years. Our hardware engineers design and manufacture high specification analogue and digital instrumentation for the harshest of industrial and research environments. We build quality designs into modular instruments based on the stringent standards including CAMAC, VME, VME64x, PCI and Industry Packs. Our software engineers implement sophisticated system drivers in all the leading operating systems to support our hardware. Software application engineers consult, design and implement complex control and data acquisition solutions.

© HYTEC ELECTRONICS LTD 2012

Information on this web site is subject to change without notice. Other products and companies referred to herein are trademarks or registered trademarks of their respective companies or mark holders. Send mail to Webmaster with questions or comments about this web site.

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** 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

ARTISAN® TECHNOLOGY GROUP