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.

Find the *Joerger Enterprises VBT* at our website: *Click HERE*

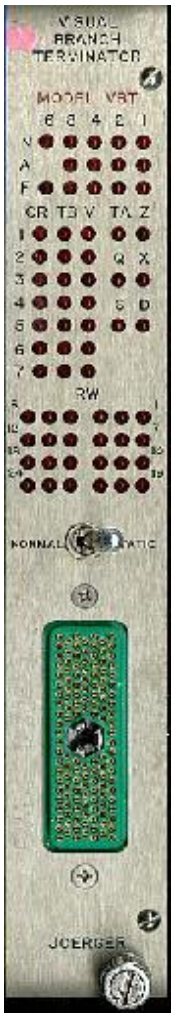
Electronic Systems Engineering

VBT & BT

Return to Joerger Directory | Return to Pool Catalog

GENERAL DESCRIPTION

Visual Branch Terminator, Model VBT





The Joerger Enterprises, Inc. Visual Branch Terminator is a double width CAMAC module. The module provides a visual display of each branch cycle, in addition to terminating the branch highway. The model VBT is especially valuable in trouble shooting a branch system. In its "normal" mode of operation branch signal data is strobed into memory for display. This is done after the system has recognized that all active crates have responded (by bringing their BTB signals up) and the system acknowledges this by returning its BTA signal to logic "0". This is the same time that the system will accept its data and so the display will present visually the same data that has been accepted by the system during that cycle. This module then eliminates the problem of synchronizing on a scope branch data with BTA in order to determine their signal levels at that time and thus greatly simplifies trouble shooting on the branch. As an extra feature the module also has a "static" mode. This allows you to look directly at the branch signals bypassing the memory. This feature can also prove valuable during trouble shooting. The model VBT can also be an asset to an operating system as an indicator verifying branch cycles. Through the use of low power integrated circuits, power consumption is kept to a minimum.

The following 63 branch signals are clocked as described.

BCR	1-7	(7)	BQ	(1)
BN	1-16	(5)	BX	(1)
BA	1-8	(4)	BD	(1)
BF	1-16	(5)	BG	(1)
BV	1-7	(7)		
BRW	1-24	(24)		
BTB	1-7	(7)		

During an initialize operation (BZ) data is clocked approximately 5µsec. after BZ gos a logic "1". This verifies that the BZ signal lasted at least that long and it also displays the state of the branch after initialization. The BTA signal is stretched in a monostable so that it will blink every cycle.

All 65 signal lines are terminated in 100 Ω to +4.1 volts. This voltage is generated internally by a regulator from the +6 volt supply. By using a regulator and a single resistor instead of two resistors from +6 volts to ground as an equivalent of 100 Ω to +4.1 volts, the quiescent current is greatly reduced. With all signals at logic "0" the current drain for the terminator is approximately 25 mA rather than over 750 mA for the resistor divider type terminators.

Branch Terminator, Model BT

The Joerger Enterprises, Inc. Branch Terminator complies completely to EUR4100E and EUR 4600E as a terminator for the branch highway. The model BT provies a 100 Ω termination to +4.1 volts for all 65 branch

signals and grounds screen shield BSC. It uses the same regulator as the model VBT.

SPECIFICATIONS

Input Impedance (All 65 signal lines)	100 Ω ±5%
Signal Levels	Logic "0": +2.4V minimum Logic "1": +1.2V maximum
Power Requirements	• Model BT: With all signals at logic "0" 25 mA from +6 volts. To calculate actual power drain add 40 mA for each signal at logic "1" (zero volts) except BSC. • Model VBT: 200 mA from +6 volts in addition to 46 mA for each line at logic "1". • Note: The currents given are maximum and the duty cycle should be taken into consideration for an accurate determination of power drain.
Size	Double width CAMAC module.
Temperature range	0°C to 55°C
Connector	Hughes type WSS0132 S00 BN 000 with sockets WS 22Y22 C 000 or equivalent. Mating half: Hughes type WSS 0132 P08 BN527 with pins WP22Y22 C 000 or equivalent.

Option #1

In place of the panel mounted connector, the terminators are available with a one foot captive branch cable that will connect directly to the model CCA-1 controller.

Connector	Hughes WSS 0132 P08 BN527 with hood, WAC 0132 H 005 or equivalent.

For assistance, contact Help Desk, helpdesk@fnal.gov
Information compiled and maintained by W. Barker ; last modified on October 21st, 2008.
(Address comments about page to ese-pcadmin@fnal.gov)

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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