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

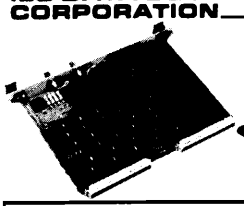
Expert team | Trust guarantee | 100% satisfaction

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

Find the *DDC BUS-65522II MIL-STD-1553B* at our website: *Click HERE*

DDC
ILC DATA DEVICE CORPORATION

BUS-65522II, 65523II, & 65524



NEW

FULL DATA SHEET AVAILABLE

MIL-STD-1553B BC/RT/MT VME/VXI INTERFACE UNIT

DESCRIPTION

The BUS-65522II/65523II/65524 provides full, intelligent interfacing between the serial dual redundant MIL-STD-1553B Data Bus and the parallel VMEbus and VXIbus. Software controls the BUS-65522II's operation as either a MIL-STD-1553 Bus Controller (BC), Remote Terminal (RT), or Bus Monitor (MT).

The BUS-65522II VME/VXI board is packaged on one double eurocard size printed circuit card. Its on-board 8K X 16 of dual access RAM is double buffered, preventing partially updated data from being read by the VME/VXI host or transmitted to the 1553 Data Bus. The CPU can access any part of the shared RAM as needed.

All MIL-STD-1553 functions: address recognition, Manchester coding and parity validation, bit count, and mode code response are provided without host processor intervention. The BUS-65522II contains eleven VME/VXI and 1553 registers which allow the VME/VXI host to configure its operation under software control.

The BUS-65522II supports four groups of vectored interrupts. A custom interrupt may be programmed by means of an on-board PROM. The interrupt request logic may be software controlled as to enable/disable, priority level and 8-bit vector.

Additional features include an on-line built-in loop test, Time Tag counter, software programmable base memory address, and RT address. The BUS-65522II supports all dual redundant mode codes and message formats. Its full compliance with MIL-STD-1553B makes it an excellent choice for real-time applications.

FEATURES

- *VMEbus/VXIbus Interface*
- *Standard Double Eurocard Size*
- *BUS-65524 Ruggedized Option Available*
- *8K X 16 On-board Dual Access RAM*
- *D16 Data Transfers*
- *A16/A24, A16/A32 Jumper Selectable*
- *On-board Time Tag Counter*
- *On-board Memory Management*

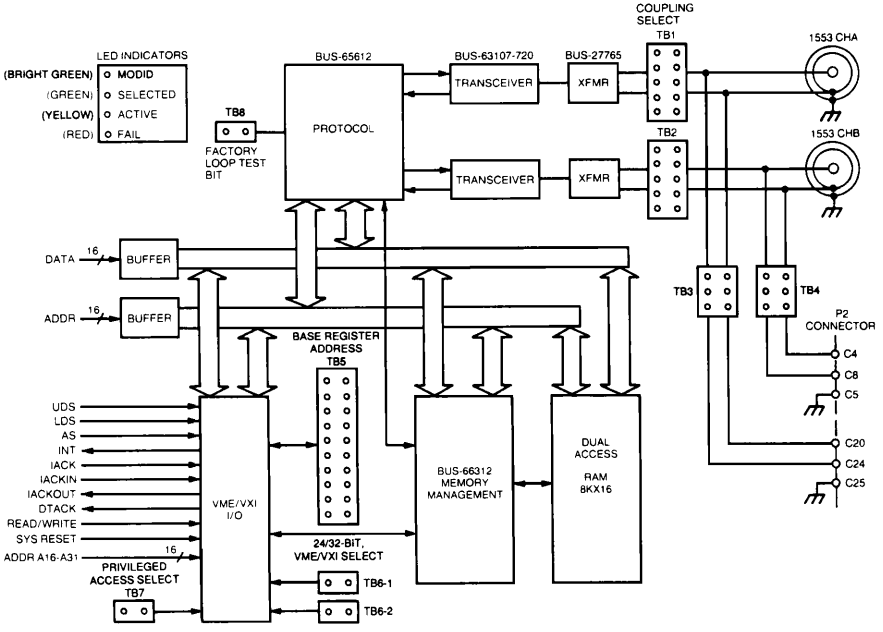


FIGURE 1. BUS-65522II BLOCK DIAGRAM

J

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

TABLE 16. BUS-65522II & BUS-65523II P2 PIN CONNECTIONS					
PIN	SIGNAL NAME	PIN	SIGNAL NAME	PIN	SIGNAL NAME
A1		B1	+5V	C1	
A2		B2	GND	C2	
A3		B3		C3	
A4		B4	A24	C4	BUS B POS
A5		B5	A25	C5	BUS B SHEILD
A6		B6	A26	C6	
A7		B7	A27	C7	
A8		B8	A28	C8	BUS B NEG
A9		B9	A29	C9	
A10		B10	A30	C10	
A11		B11	A31	C11	
A12		B12	GND	C12	
A13		B13	+5V	C13	
A14		B14		C14	
A15		B15		C15	
A16		B16		C16	
A17		B17		C17	
A18		B18		C18	
A19		B19		C19	
A20		B20		C20	BUS A NEG
A21		B21		C21	
A22		B22		C22	
A23		B23		C23	
A24		B24		C24	BUS A POS
A25		B25		C25	BUS A SHEILD
A26		B26		C26	
A27		B27		C27	
A28		B28		C28	
A29		B29		C29	
A30		B30		C30	
A31		B31	GND	C31	
A32		B32	+5V	C32	

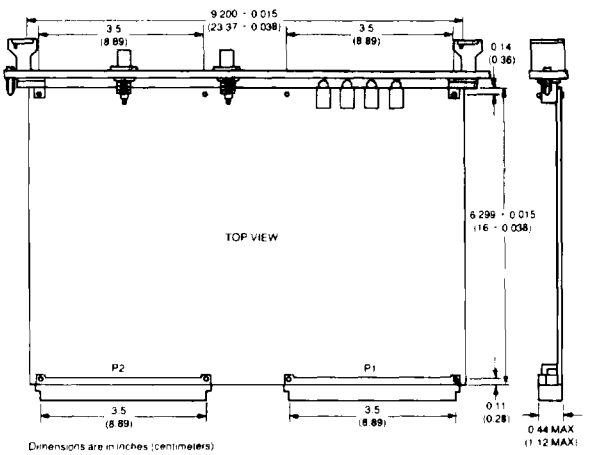


FIGURE 40. MECHANICAL OUTLINE

ORDERING INFORMATION

BUS-6552X

Board Configuration:

2II = Trapezoidal Transceiver (1553 B), 0 to 70°C

3II = Sinusoidal Transceiver (MACAIR), 0 to 70°C

4 = Ruggedized Board, with Trapezoidal Transceiver (1553 B), -55 to +125°C

BUS-69053 **free** Microsoft "C" Run Time library of routines available which supports VME/1553 application software.

For additional information, please contact the Data Bus Applications Group at 1-800-DDC-1772 x234.

In New York State, (516) 567-5600 x234.

A-ABR

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