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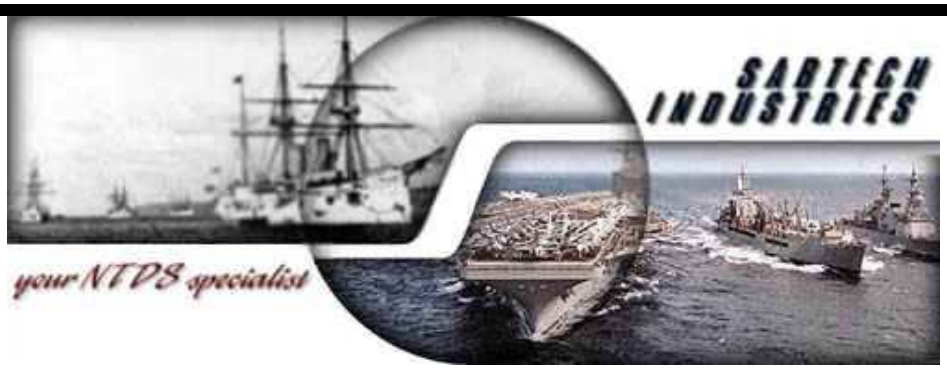
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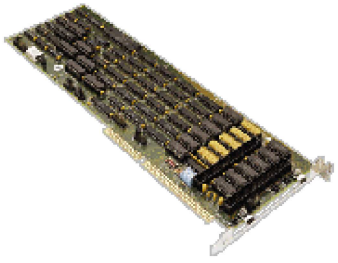


EAGLE



The Eagle Half Size Type A/B with military connector Adapter Module

The EAGLE family of NTDS boards from Sabtech are 32-bit full-duplex interfaces between MIL-STD-1397C Type A, B, C, or H parallel I/O channels and the PC (ISA) bus. EAGLE boards occupy a single ISA slot making it easy to install multiple boards in a system. They can also be used on EISA systems such as the U.S. Navy's TAC-3/4.



A uniform programming interface provides software compatibility across the entire EAGLE family of NTDS boards. MS DOS® and Windows NT® device drivers make it easy to program. Each board is also supplied with comprehensive diagnostic software, detailed documentation, and programming examples written in C to simplify development and save time. EAGLE boards are versatile and allow you to optimize their performance by operating in DMA, polled, or interrupt modes. EAGLE boards also feature short-circuit

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protected NTDS drivers which prevent failures if cables are connected incorrectly.

EAGLE boards can be installed in desktop, portable, or rugged PC systems to meet a wide variety of demanding requirements in the lab or aboard ship such as testing, emulation, training, simulation, data collection, or tactical operations. Wherever the need exists to interface to NTDS equipment, the EAGLE is the ideal COTS choice for building powerful yet affordable NTDS systems.

Eagle FS *Model# EA-01102-00*

The full-size EAGLE-FS performs NTDS transfers using independent input and output data paths, each with its own 32-bit FIFO. Switches and jumpers on the board select base address, DMA channels, IRQ, and either NTDS Type A or B operation. It also includes an RS-422 serial port that can be selectively enabled.

Eagle HS *Model# EA-01103-00*

The half-size EAGLE-HS is ideal for use in portable computers or in any system where space is limited. Removal of the RS-422 port and the use of a high-density connector on the rear plate make the reduced size possible. Otherwise, it is identical to the full-size EAGLE-FS.

Eagle II *Model# EA-02101-00*

The EAGLE-II has independent input and output data paths, each with its own 4 Kbyte FIFO, giving it the ability to buffer 1000 32-bit words in each direction. All configuration settings on the EAGLE-II are selectable by software with the exception of base address and NTDS voltage. The EAGLE-II supports NTDS Types B, C, and H. It also has differential NTDS receivers for improved noise immunity. Autotransfer is an advanced feature of the EAGLE-II, enabling it to automatically echo NTDS input words directly to

the NTDS output. This feature makes it easy to implement an active tap where the input is connected to one device and the output is connected to another. The EAGLE-II can receive NTDS words, process or store them, and retransmit them using autotransfer.

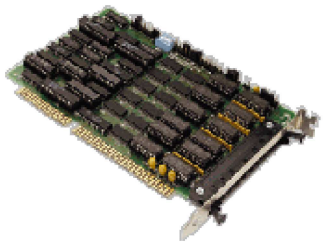
Eagle II+ *Model# EA-02102-00*

The EAGLE-II+ is identical to the EAGLE-II but with increased memory. Dual 8 Kbyte FIFOs give it an onboard buffer size of 2000 32-bit words in each direction

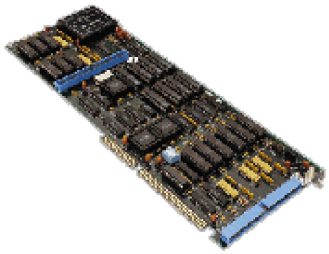
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Key Benefits

Eagle FS
MIL-STD-1397C Type A/B



Eagle HS
MIL-STD-1397C Type A/B



Eagle II
MIL-STD-1397C Type B/C/H

Note:Type J boards come with 4 fiberoptic connectors {a pair of Tx & Rx connectors per port}

The above type J board is shown with a single pair of connectors for display purposes only

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A complete description of the EAGLE family includes all the features and capabilities described on the *SABTECH PC/NTDS FAMILY* page, as well as those listed below:

- MIL-STD-1397C Type A,B, C or H compliant
- Full-duplex 8, 16, or 32 bit serial NTDS transfers
- Software-selectable for Computer, Intercomputer, Peripheral, or Inter-peripheral modes
- 32 switch selectable I/O base addresses
- Selectable NTDS timing *
- Selectable DMA channels and IRQ levels *
- Supports multiple forced EFs and EIs
- Differential NTDS receivers (EAGLE-II & II+)
- Separate input and output FIFO buffers
- Dual 1K by 32-bit FIFO standard (EAGLE-II)
- Dual 2K by 32-bit FIFO optional (EAGLE-II+)
- Short-circuit protected NTDS Drivers
- Operates in DMA, polled, or interrupt modes
- Multiple EAGLEs and NAVIGATOR IIs may be used in a single PC system
- Requires a single ISA slot
- Full-length and half-length board sizes available
- RS-422 port on the EAGLE-FS
- Autotransfer capability (EAGLE II & II+)
- Active and passive tap capability
- Supplied with MS-DOS device driver, test program, and sample interface programs
- Windows NT® device driver available (Optional)

** Selections made via jumpers on EAGLE-FS & HS, via software on EAGLE-II & II+*

Specifications& Ordering Information

	EAGLE FS	EAGLE HS	EAGLE II	EAGLE II+
NTDS Interface:	MIL-STD-1397C Type A or B	MIL-STD-1397C Type A or B	MIL-STD-1397C Type B, C or H	MIL-STD-1397C Type B, C or H
PC Interface:	Single ISA slot	Single ISA slot	Single ISA slot	Single ISA slot
NTDS I/O Connectors:	Two 50-pin box headers	One 100-pin high-density connector	Two 60-pin box headers	Two 60-pin box headers
Form Factor:	13.25 x 4.7 in (33.6 x 10.6 cm)	6.5 x 4.19 in (16.5 x 10.6 cm)	13.25 x 4.7 in (33.6 x 10.6 cm)	13.25 x 4.7 in (33.6 x 10.6 cm)
Weight:	310 g (11 oz)	162 g (5.7 oz)	374 g (13.2 oz)	374 g (13.2 oz)
Relative Humidity:	0% to 90% (Noncondensing)	0% to 90% (Noncondensing)	0% to 90% (Noncondensing)	0% to 90% (Noncondensing)
Operating Temperature:	0° C to +55° C	0° C to +55° C	0° C to +55° C	0° C to +55° C
Power Consumption:	+5Vdc @ 1.3 A	+5Vdc @ 1.3 A	+5Vdc @ 3.0 A	+5Vdc @ 3.0 A
	-5Vdc @ 71 mA	-5Vdc @ 71 mA	-5Vdc @ 0 mA	-5Vdc @ 0 mA
	-12Vdc @ 84 mA	-12Vdc @ 84 mA	-12Vdc @ 0 mA	-12Vdc @ 0 mA
Part Number:	EA-01102-00	EA-01103-00	EA-02101-00	EA-02102-00

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Specifications subject to change without notice

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