PARALLEL HAWKE

HAWKE-2P A/B/C/H

The HAWKE-2P A/B/C/H is the second NTDS board in the new generation of Sabtech NTDS parallel interfaces, which is software and cable compatible with the HAWKE , Hawke-X A/B and the Hawke B/C/H. Like the Hawke-X, the HAWKE-2P uses reliable surface mount technology, has increased RAM (2 MB Vs. 512 KB), a rotary switch for address select, field modifiable Flash EPROM, board stiffeners to enhance ruggedness, and access to front panel mounted connectors for full 32-bit NTDS I/O. The HAWKE-2P also features Hawke-X compatible 16-bit or user selectable full 32-bit NTDS access through the P2 connector. A paddle board installed on the rear of P2 converts to the identical NTDS cable pinouts found on the front of the board. The HAWKE-2P A/B/C/H has short circuit protected, tristatable drivers, differential NTDS receivers and front panel LED's for all NTDS handshake lines, has NTDS slew rate control, and is user selectable for either NTDS Type A (NTDS Slow), B (NTDS Fast), C (NTDS ANEW), or H (NTDS High Throughput) operation. The HAWKE-2P extends the capabilities of earlier Hawke NTDS board designs while eliminating obsolescence issues.

Features

A complete description of the Parallel HAWKE family includes all the features and capabilities described in the HAWKE FAMILY SECTION of this catalog, as well as those listed below:
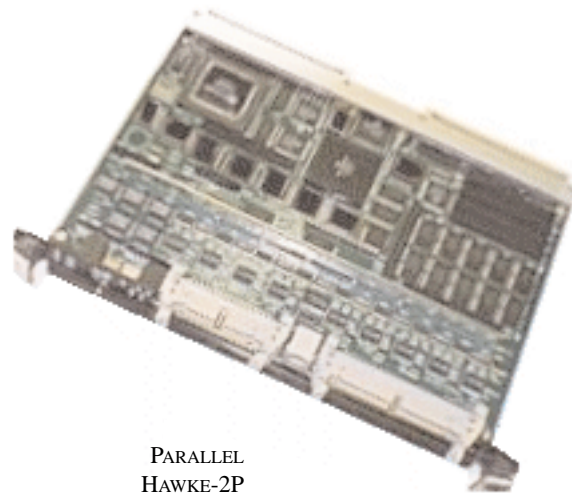
- Full-duplex 8,16, or 32 bit NTDS transfers
- Short circuit protected, tristatable drivers, differential NTDS receivers
- Computer, Intercomputer, Peripheral, or Interperipheral modes
- User-programmable MC68020 CPU
- VIC068A/VIC64 VMEbus Interface Controller for 100% VMEbus compatibility
- High speed 32 bit Block Mode VME transfer
- 512KB RAM for NTDS I/O, CPU, and VMEbus access (2 MB on HAWKE-X/HAWKE-2P)
- Dynamically allocate RAM for NTDS I/O or onboard programs
- User EPROM socket supports up to 1M byte of user programs
- Parallel access to NTDS data and word type
- Receive and transmit multiple forced EFs without loss
- Independent word count registers and time-out counters for
- NTDS input and output
- Operates as an A32/A24/A16:D32/D16/D8 bus master and A32/A24:D32/D16/D8 or A16/D8 slave
- Independent transmit and receive transaction cancel
- Built-in Test (BIT) on power up or reset
- Built-in menu-driven System Monitor program links HAWKE to PC or terminal via RS-232C port
- Built-in Assembler/Disassembler and Debugger
- Perform loopback and basic NTDS operations from a menu-driven interface
- Front panel LEDs for reset, bus error, user, halt, test and watchdog timer
- Up to 16 Parallel HAWKEs may be used in a single VMEbus system
- Active or passive tap capability

Specifications & Ordering Information

Hawke-2P A/B/C/H

NTDS Interface:	MIL-STD-1397C TYPE A, B, C, H
VMEbus Interface:	VME REVISION C.1 (IEEE P1014)
Processor:	MC68020, 32-BIT CPU
RAM:	2M BYTES
NTDS I/O Connectors:	DUAL 50 PIN AND 34 BOX HEADERS OR
	VMEBUS P2 CONNECTOR
RS-232C Connector:	RJ-12 W/ DB9 MALE ADAPTER
Form Factor:	SINGLE-WIDE 6U EUROCARD
Weight:	438 G (14 OZ)
Power Consumption:	+5VDC @ 2.3 A
	+12VDC @ 350 MA
	-12VDC @ 390 MA
Operating Temperature:	0° C TO +55° C
Relative Humidity:	0% TO 90% (NONCONDENSING)
User EPROM:	8K BYTES TO 1M, BYTES SUPPORTED
Part Number:	HK-01101-43

Specifications subject to change without notice

PARALLEL HAWKE-2P

SABTECH INDUSTRIES