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SYNERGY microsystems Taking VME Performance To New Heights

Mezzanine Cards

PU32 & EU20: Multiple Serial Ports



PU32 click to see

Synergy's PU32 PMC module offers you unparalleled serial I/O capacity, with up32 serial I/O ports with full DMA support for VMEbus SBCs supporing PMC modules. Benefits include:

- Full PMC interface support

- Up to 32 serial I/O channels using VME64x 5-row connector, 20 channels with standard 3-row connector

- Up to 128 Kb/second bit rate

- Two full modem control serial ports with RS-232, RS-449, V.35, and RS-530 support

- Up to 30 four-wire serial ports with CTS/RTS handshaking

- Compatible with Synergy's Gemini PowerPC SBCs and all VME boards with PMC support

- Stackable hardware option lets you use a Synergy PMC carrier board and a PU32 simultaneously on one Synergy CPU board, allowing attachement of up to three additional PMC modules

- Choice of three different transition modules provide several serial port connection options

- Compatible with EU20 serial port transition modules

The EU20 provides up to 20 serial

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ports and connects to Synergy V451/V452 CPU boards via the EZ-bus interface.

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ECOM: Multiple I/O Options



The ECOM EZ-bus mezzanine module provides SCSI-1/-2, Ethernet, and sync/async serial interface with full DMA for Synergy's V451 and V452 VMEbus SBCs. Benefits include:

- SCSI bus transfers at up to 10 MBytes/s; SCSI DMA transfers up to

- 17.5 MBytes/s

- 32-bit Ethernet DMA transfers

- Four channel DMA serial interface with up to 64 Kbits/s throughput

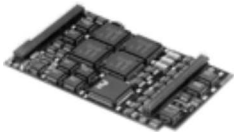
- Requires only one VMEbus slot for SBC/ECOM combination

- Stackable hardware interface lets you use an additional EZ-bus module simultaneously with ECOM on the same SBC

- Compatible with all 680x0-based Synergy SBCs

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ESER: 4-Channel Serial or T1/E1



The ESER EZ-bus mezzanine module provides a high performance 4-channel serial or T1/E1 interface for Synergy's V451 and V452 VMEbus SBCs. Benefits include:

- Intelligent DMA with deep data

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FIFOs simplifies high speed buffer management

- T1/fractional T1 interface with **optional TET1 transition module**. Also supports CEPT PCM 30 (E1)

- 32-bit Ethernet DMA transfers

- Requires only one VMEbus slot for SBC/ESER combination

- Stackable hardware interface lets you use an additional EZ-bus module simultaneously with ECOM on the same SBC

- Simultaneously with ESER on the same SBC

- Compatible with all 680x0-based Synergy SBCs

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TET1: T1/E1 Transition Module



The TET1 transition module connects to the ESER mezzanine module to provide your Synergy V451 or V452 VMEbus SBCs with a T1/E1 interface for digital telecommunications applications. Benefits include:

- Supports T1/E1, full/fractional (15 T1/E1 time slots)

- Drives up to 4 fractional T1/E1 channels from a single board

- 32-bit Ethernet DMA transfers

- Compatible with all 680x0-based Synergy SBCs

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PDEN & EDEN: Dual SCSI & Ethernet, Parallel, Serial, & More



EDEN click to see

The PDEN (PMC interface) **and EDEN** (EZ-bus interface) expand your system's capability with numerous I/O options, including:

- Two wide ultra SCSI ports transfer data at up to 40MB/s, with DMA transfers at up to 50MB/s

- Two 10/100 Base-TX Ethernet ports

- One IEEE 1284 (Centronics+) parallel port of single floppy port

- Two 16C550 high speed serial UART ports

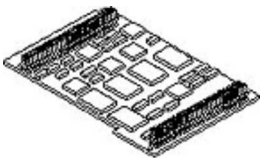
- Two Universal Serial Bus (USB) ports

- One PS/2-compatible mouse port

- Stackable hardware interface lets you use an additional mezzanine module simultaneously with the PDEN or EDEN on a Synergy SBC

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PQIC & EQIC: Dual T/1 or E/1 Interfaces For Telecom



EQIC

The PQIC (PMC interface) **and EQIC** (EZ-bus interface) provide you with two T1 or two E1 lines for networks and telecommunications applications.

- Supports two channels of full or fractional T1/E1

- Highly flexible mapping of physical to logical data channels

- Either HDLC or raw data forms, selectable on a channel-by-channel basis

- Efficient DMA data transfers

- Capable of maintaining up to 62 simultaneous separate full duplex data channels

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- Stackable hardware interface lets you use an additional mezzanine module simultaneously with the PQIC or EQIC on a Synergy SBC

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EWSE: Wide SCSI-2 & Ethernet



The EWSE EZ-bus mezzanine module provides fast, wide SCSI-2 and Ethernet interfaces with full DMA for Synergy's V451 and V452 VMEbus SBCs. Benefits include:

- Fast, wide SCSI-2 bus transfers at up to 20 MB/s; DMA transfers at up to 19.5 MB/s

- EWSE design allows full use of the SCSI coprocessor capability including DRAM and VME DMA transfers

- 32-bit Ethernet DMA transfers

- Requires only one VMEbus slot for SBC/EWSE combination

- Stackable hardware interface lets you use an additional EZ-bus module simultaneously with EWSE on the same SBC

- Compatible with all 680x0-based Synergy SBCs

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ESOE: Fast, Wide SCSI-2 & Up To 8 Ethernet Ports



The ESOE Full-size (6U) EZ-bus module provides a fast, wide SCSI-2 port and up to eight 10Base-T Ethernet ports for Synergy's V451 and V452 VMEbus SBCs.

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- Fast, via front panel, wide SCSI-2 interface provides data transfers at up to 20 MB/sec

- Two, four, or eight high performance 10Base-T Ethernet ports provide 32-bit DMA-assisted Ethernet transfers at up to 10 Mb/s via the front panel

- Stackable hardware interface lets you use an additional half-size EZ-bus module simultaneously with ESOE on the same SBC
- Compatible with all 680x0-based Synergy SBCs

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ETVI: Video Frame Buffer



The ETVI EZ-bus mezzanine module provides Synergy VMEbus SBCs with a general purpose, software controlled video frame buffer with wide support of pixel formats and video resolution. Benefits include:

- All video formats from RS-170 to 1280x1024 are supported

- 8MB dual-ported frame buffer

- All software-controlled includes selection of pixel depth and video resolution

- Video frame grabber and mixing capabilities with optional transition modules

- Full X-Windows software support

- Requires only one VMEbus slot for SBC/ETVI combination

- Stackable hardware interface lets you use an additional EZ-bus module simultaneously with ETVI on the same SBC

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- Compatible with all 680x0-based Synergy SBCs

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EGES: Special Purpose GPIB, Ethernet & SCSI

The EGES [Special Function I/O Module] provides GPIB, Ethernet & SCSI I/F w/ DMA.

- Compatible with 68020, 68030, and 68040-based Synergy CPU boards with processing speeds up to 50 MHz.

- DMA-driven GPIB interface based on the TMS9914A GPIB Controller from Texas Instruments. The EGES GPIB interface supports GPIB applications based on the IEEE-488.1 standard. For flexible interfacing to your GPIB device, the EGES GPIB interface can be programmed to be a Talker, Listener, or Controller. An 8-bit DMA channel speeds data transfers over the GPIB interface at 500 KB/sec.

- High-performance, intelligent Ethernet/Thinnet interface based on the 82596CA Ethernet DMA coprocessor from Intel. The EGES Ethernet DMA interface fully complies with the IEEE 802.3 Ethernet specification and performs 32-bit DMA-assisted Ethernet or Thinnet transfers at up to 10 Mbits/sec.

- High-performance, intelligent SCSI-2/ SCSI-1 interface based on the 2MIPs 53C710 SCSI DMA coprocessor from NCR. The EGES SCSI DMA interface performs SCSI-2 transfers at up to 10 MB/sec, SCSI-1 synchronous transfers at up to 5 MB/sec, or SCSI-1 asynchronous transfers at up to 3.5 MB/sec. Although optimized for SCSI operations, the 53C710 also includes the flexible SCSI SCRIPTS programming language and compiler allowing it to process other types of data transfers and data as well.

- Stackable hardware interface lets you use an additional EZ-bus module simultaneously with the EGES on the same CPU motherboard.

- Presents signals from the I/O interfaces to the P2 connector on the motherboard.

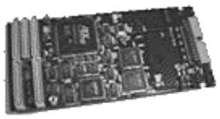
- TGES transition module routers I/O signals from the P2 connector on the VME backplane for

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convenient connection to external devices/ports. TGES interface cables are available as an option from Synergy.

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PVSB & EVSB: VSB Interface



PVSB

The PVSB (PMC interface) **and EVSB** (EZ-bus interface) provide a full VSB (VMe Subsystem Bus) interface with DMA. Benefits include:

- Supports master and slave operation

- Two chainable DMA channels for block transfers of up to 33 MB/s

- Four tunable bi-directional data FIFOs (master, slave, and two DMA)

- Eight 32-bit doorbell registers

- Can generate locked VSB cycles

- Flexible interrupt generation and routing

- VSB bus arbiter

- 3.3 or 5 Volt PMC signalling (PVSB only)

- Requires no additional VME slot

- Stackable hardware interface lets you use an additional mezzanine module simultaneously with the PDEN or EDEN on a Synergy SBC

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Connection to single or dual RACEway ports

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PXB2 Click to see

The PXB2 is the industry's first dual-RACEway PMC module, allowing you to connect your CPU board to the RACEway interconnect fabric. The PXB2 features two PCI-RACEway bridges, supporting connection to two RACEway crossbars simultaneously. Benefits include:

- Supporting two RACEway ports over the five-row P2 connector doubles connectivity and system bandwidth

- Backward-compatible with three-row P2 connectors and backplanes, supporting one RACEway port

- Master and slave operation (versus master only) simplifies coding and improves performance

- Intelligent DMA with Link List transfers maximizes bus bandwidth

- Optimized for use with Synergy's Gemini PowerPC single board computers

- Fully supported under VxWorks and other operating systems

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