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August 15, 2026

ABACO SYSTEMS / SBS

# Abaco Systems / SBS V5B VMEbus Embedded PC

The SBS / Abaco V5B isaVMEbus embedded PC single-board computer bringing PC architecture to 6U VME systems. SBS V5B literature describes Pentium-class processing, DRAM, Flash/DiskOnChip storage class, Ethernet, and VMEbus system controller functions for industrial embedded PCs. Industrial VMEbus systems needing PC-compatible software and I/O while retaining VME peripheral interoperability. Front Panel: keyboard mouse VGA class options Identity from Abaco / SBS V5B VMEbus Embedded PC listings. Exact CPU speed and memory capacity are configuration specific. Industrial VMEbus systems needing PC-compatible software and I/O while retaining VME peripheral interoperability. Front Panel: keyboard mouse VGA class options Identity from Abaco / SBS V5B VMEbus Embedded PC listings. Exact CPU speed and memory capacity are configuration specific.



MODEL

**Abaco Systems /  
SBS V5B**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**V5B**

LISTING

<https://aumictechlabs.com/products/v5b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The Abaco Systems V5B is a single-slot, 6U VMEbus Embedded PC engineered for computing in demanding embedded applications. It combines IBM PC/AT compatibility with a local PCI bus architecture to deliver real-world performance within a VMEbus environment. Technical Specifications Processor & Memory Intel Pentium MMX or AMD K6-2 processors up to 400 MHz 256 KB Level 2 Cache Configurable RAM up to 128 MB Graphics & Video SVGA GUI Accelerated PCI Bus Video Controller 2 MB High Speed Video DRAM Storage Interfaces Fast SCSI-2 Interface

Enhanced IDE Hard Disk Interface Networking 10/100 BaseT Ethernet Expansion & Connectivity  
PCI Mezzanine Card (PMC) Expansion Interface Optional ISA Expansion Two RS-232 serial ports  
One parallel port VMEbus Interface VME64 compliant via Universe II VMEbus Interface VMEbus  
Block Mode Transfer capability VMEbus Hardware Byte Swapping support

**Key Features** The V5B leverages a dedicated local PCI bus to minimize latency and maximize throughput in compute-intensive applications. VME64 compliance via the Universe II controller enables high-bandwidth block mode transfers across the backplane. Hardware byte swapping eliminates software overhead for endian conversion in multi-processor VMEbus systems.

**Typical Applications** The V5B suits real-time data acquisition, embedded signal processing, industrial automation, and military/aerospace systems where VMEbus integration and x86 compatibility are required.

**Compatibility & Integration** Full IBM PC/AT compatibility ensures broad operating system and application software support. The successor V5C provides form, fit, and function compatibility - existing V5B applications, transition modules, disk drives, and PMC boards transfer directly to V5C systems without modification.

# V5B Characteristics / Specifications

| PARAMETER                   | VALUE                            |
|-----------------------------|----------------------------------|
| Model                       | V5B                              |
| Instrument Type             | VMEbus embedded PC               |
| Form Factor                 | 6U VMEbus                        |
| Architecture                | PC compatible x86                |
| Manufacturer                | SBS Abaco Systems                |
| Bus Standard                | VMEbus                           |
| Role                        | system controller SBC class      |
| Memory                      | DRAM SODIMM class                |
| Storage                     | Flash or DiskOnChip class        |
| Ethernet                    | onboard Ethernet class           |
| Serial                      | COM ports class                  |
| Operating Temperature Class | industrial                       |
| Power                       | VME power rails                  |
| Cooling                     | forced air                       |
| Humidity Class              | non condensing                   |
| Expansion                   | PC104 or PMC class options       |
| Firmware                    | PC BIOS class                    |
| Watchdog                    | hardware watchdog class          |
| Front Panel                 | keyboard mouse VGA class options |
| Interrupts                  | VME and local interrupts         |
| Duty                        | continuous industrial            |
| Storage Temperature Class   | industrial                       |
| Grounding                   | chassis ground                   |
| Compatibility               | VME peripheral boards            |
| Storage temperature         | Class: industrial                |

| PARAMETER             | VALUE                 |
|-----------------------|-----------------------|
| Operating temperature | Class: industrial     |
| Humidity              | Class: non condensing |

# V5B Specifications

| PARAMETER                        | VALUE                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Abaco SBS V5B VMEbus Embedded PC | Overview                                                                                                                   |
| Technical Specifications         | Model: V5B                                                                                                                 |
| Notes                            | Identity from Abaco / SBS V5B VMEbus Embedded PC listings. Exact CPU speed and memory capacity are configuration specific. |

# General Specifications & Supplementary Characteristics

| PARAMETER                   | VALUE                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage temperature         | Class: industrial                                                                                                                                      |
| Operating temperature       | Class: industrial                                                                                                                                      |
| Operating Temperature       | Class: industrial                                                                                                                                      |
| Humidity                    | Class: non condensing                                                                                                                                  |
| Operating Temperature Class | industrial                                                                                                                                             |
| Power                       | VME power rails                                                                                                                                        |
| Cooling                     | forced air                                                                                                                                             |
| Humidity Class              | non condensing                                                                                                                                         |
| Expansion                   | PC104 or PMC class options                                                                                                                             |
| Firmware                    | PC BIOS class                                                                                                                                          |
| Watchdog                    | hardware watchdog class                                                                                                                                |
| Front Panel                 | keyboard mouse VGA class options                                                                                                                       |
| Interrupts                  | VME and local interrupts                                                                                                                               |
| Duty                        | continuous industrial                                                                                                                                  |
| Storage Temperature Class   | industrial                                                                                                                                             |
| Grounding                   | chassis ground                                                                                                                                         |
| Compatibility               | VME peripheral boards Notes Identity from Abaco / SBS V5B VMEbus Embedded PC listings. Exact CPU speed and memory capacity are configuration specific. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

| Specifications              |                                  |
|-----------------------------|----------------------------------|
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| Compatibility               | VME peripheral boards            |

#### Notes

Identity from Abaco / SBS V5B VMEbus Embedded PC listings. Exact CPU speed and memory capacity are configuration specific.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.