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Data Sheet

August 13, 2026

KONTRON

Kontron SBC-845D-VEA Single Board Computer

The Kontron SBC-845D-VEA is a full-size PICMG single board computer built on the Intel 845D chipset for demanding industrial applications requiring reliable operation in harsh environments. It accommodates Intel Pentium 4 processors up to 2GHz with a 400MHz Front Side Bus, supports up to 2GB of DDR SDRAM with ECC capability, and integrates an ATI M6 3D graphics controller with 16MB dedicated DDR SDRAM. The board provides comprehensive I/O connectivity including Fast Ethernet, three USB ports, two serial ports, parallel port, IrDA, and floppy controller, plus onboard storage interfaces for up to four HDDs via Enhanced PCI IDE with Ultra DMA/33/66/100 support and a Disk-on-Chip socket. Compatible with Pentium 4 (Willamette, Northwood) and Celeron (Willamette-128, Northwood-128) Memory Aumictech offers NIST-traceable calibration and repair for the Kontron SBC-845D-VEA. Calibration covers



MODEL

Kontron SBC-845D-VEA

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SBC-845D-VEA

LISTING

<https://aumictechlabs.com/products/sbc-845d-vea-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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Fast Ethernet, three USB ports, two serial ports, parallel port, IrDA, and floppy controller, plus onboard storage interfaces for up to four HDDs via Enhanced PCI IDE with Ultra DMA/33/66/100 support and a Disk-on-Chip socket. Technical Specifications Processor & Chipset Intel mPGA478 socket Pentium 4 up to 2GHz with 400MHz FSB Intel 845D chipset (DDR version) with GMCH and ICH2 Compatible with Pentium 4 (Willamette, Northwood) and Celeron (Willamette-128, Northwood-128) Memory Two 184-pin DIMM sockets supporting DDR SDRAM up to 2GB 200MHz and 266MHz DDR SDRAM support ECC memory support available Graphics ATI M6 3D AGP 4x graphics controller 16MB dedicated DDR SDRAM for display cache 2D hardware acceleration and 3D hyper-pipelined architecture Motion video acceleration CRT and dual-channel LVDS/TMDS panel display support Storage Enhanced PCI IDE supporting up to four HDDs with PIO mode 4 timing Ultra DMA/33/66/100 synchronous mode 32-pin DIP socket for DiskOnChip 2000 up to 512MB Key Features Integrated Intel ICH2 Fast Ethernet (10/100Mb) with Wake On LAN Three USB ports, two serial ports, one parallel port (SPP/EPP/ECP) PS/2 keyboard and mouse via 6-pin Mini-DIN connector IrDA interface and watchdog timer support PICMG 1.0 compliant with PCI V2.1 bus specification Proprietary 32-bit PCI extension connector for SCSI and audio modules ISA bus mastering with 64mA high-drive capability Typical Applications Industrial control, embedded systems, rugged computing platforms, and modular backplane-based deployments requiring PICMG compliance. Compatibility & Integration Fully compatible with PICMG 1.0 backplanes and PCI/ISA expansion architecture. Supports legacy peripherals via floppy controller (360k–2.88MB formats) and parallel port modes. DiskOnChip integration provides non-volatile boot storage without mechanical drives.

SBC845DVEA Characteristics / Specifications

PARAMETER	VALUE
Model	SBC-845D
Manufacturer	Kontron
Instrument Type	PICMG single board computer
Series	SBC-845D
Alias	SBC-845D-VEA; SBC845D
Chipset	Intel 845D
Processor	Intel Pentium 4 up to 2.0 GHz
Graphics VEA	ATI M6 AGP 4X
Graphics Memory VEA	16 MB dedicated
Ethernet	onboard 10/100 Mbit
Form Factor	PICMG SBC
Expansion Connector	proprietary for Ultra-160 SCSI and other devices
Video Version	VEA includes video and Ethernet
Drivers	chipset INF for Win9x/2k/XP; video WinNT4 class
Status	legacy Kontron PICMG
Bus	PICMG / PCI-ISA industrial backplane
Not CompactPCI	PICMG 1.0 SBC versus 3U/6U cPCI blades
Memory	DIMM per 845D (confirm installed size on the board)
BIOS	confirm on the unit
I/O	standard SBC I/O plus VEA video/Ethernet (confirm faceplate)
SCSI Path	proprietary connector, not always stuffed
Operating System Class	Windows 9x/2000/XP driver set published
Heatsink	Pentium 4 cooler required
Chassis	PICMG passive backplane industrial PC
Replacement	later Kontron PICMG Pentium 4/Core SBCs

PARAMETER	VALUE
Form	full-size PICMG CPU card Notes Specs from Kontron SBC-845D-VEA product page (Pentium 4 to 2.0 GHz, 845D, ATI M6 16 MB, 10/100). Confirm VEA versus non-video SKU, CPU speed, and RAM on the installed board.

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.

performance applied-computing PICMG SBC for industrial passive-backplane chassis.

Applications

PICMG industrial PCs

Vision and HMI with ATI M6

10/100 embedded Ethernet

SCSI expansion via proprietary connector

Key Features

Intel 845D; Pentium 4 to 2.0 GHz

ATI M6 AGP 4X, 16 MB (VEA)

10/100 Ethernet onboard

PICMG SBC, not CompactPCI

Technical Specifications

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PARAMETER	VALUE
Model	SBC-845D
Manufacturer	Kontron
Instrument Type	PICMG single board computer

Specifications

PARAMETER	VALUE
Series	SBC-845D
Alias	SBC-845D-VEA; SBC845D
Chipset	Intel 845D

Specifications

PARAMETER	VALUE
Processor	Intel Pentium 4 up to 2.0 GHz
Graphics VEA	ATI M6 AGP 4X
Graphics Memory VEA	16 MB dedicated

Specifications

PARAMETER	VALUE
Ethernet	onboard 10/100 Mbit

PARAMETER	VALUE
Form Factor	PICMG SBC
Expansion Connector	proprietary for Ultra-160 SCSI and other devices

Specifications

PARAMETER	VALUE
Video Version	VEA includes video and Ethernet
Drivers	chipset INF for Win9x/2k/XP; video WinNT4 class
Status	legacy Kontron PICMG

Specifications

PARAMETER	VALUE
Bus	PICMG / PCI-ISA industrial backplane
Not CompactPCI	PICMG 1.0 SBC versus 3U/6U cPCI blades
Memory	DIMM per 845D (confirm installed size on the board)

Specifications

PARAMETER	VALUE
BIOS	confirm on the unit
I/O	standard SBC I/O plus VEA video/Ethernet (confirm faceplate)
SCSI Path	proprietary connector, not always stuffed

Specifications

PARAMETER	VALUE
Operating System Class	Windows 9x/2000/XP driver set published
Heatsink	Pentium 4 cooler required
Chassis	PICMG passive backplane industrial PC

Replacement: later Kontron PICMG Pentium 4/Core SBCs

Form: full-size PICMG CPU card

Notes

Specs from Kontron SBC-845D-VEA product page (Pentium 4 to 2.0 GHz, 845D, ATI M6 16 MB, 10/100). Confirm VEA versus non-video SKU, CPU speed, and RAM on the installed board.

Available from Aumictech

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

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

Aumictech

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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.