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Data Sheet

August 13, 2026

KONTRON / ICS ADVENT

Kontron / ICS Advent SB586PV Controller Board

Kontron ICS Advent SB586PV PICMG Pentium SBC The Kontron / ICS Advent SB586PV isaPICMG PCI/ISA industrial single-board computer for Socket 7 Intel Pentium 75 MHz to 200 MHz (example listing Pentium 166 MHz, 64 MB DRAM, 512 kB cache). Intel 430NX chipset. Onboard Adaptec AIC-7880P SCSI, VGA, no LAN on the PV identity (SB586P versus SB586PV: PV has parallel and VGA). Four SIMM sockets in two banks, up to 192 MB using 36-bit SIMMs. Cache 256 kB or 512 kB plug-in modules. LIF CPU socket with heatsink; fan-cooled heatsink recommended above +40 C. Onboard high-speed serial, parallel, disk controllers to free backplane slots. PCI onboard; ISA plus PCI extension with DEC bridge. XXCAL Gold; CE inaCE chassis. Controllers can be BIOS-disabled. The Kontron / ICS Advent SB586PV isaPICMG PCI/ISA industrial single-board computer for Socket 7 Intel Pentium 75 MHz to 200 MHz (example listing Pentium 166 MHz, 64 MB DRAM, 512 kB cache). Intel 430NX chipset. Onboard Adaptec AIC-7880P SCSI, VGA, no LAN on the PV identity (SB586P versus SB586PV: PV has parallel and VGA). Four SIMM sockets in two banks, up to 192 MB using 36-bit SIMMs. Cache 256 kB or 512 kB plug-in modules. LIF CPU socket with heatsink; fan-cooled heatsink recommended above +40 C. Onboard high-speed serial, parallel, disk controllers to free backplane slots. PCI onboard; ISA plus PCI extension with DEC bridge. XXCAL Gold; CE inaCE

**MODEL****Kontron / ICS
Advent SB586PV****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****SB586PV****LISTING**<https://aumictechlabs.com/products/sb586pv-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Kontron/ICS Advent SB586PV is an industrialized single board computer engineered for Intel Pentium processor deployment in demanding industrial environments. It integrates onboard storage controllers, video, and serial/parallel interfaces directly on the board, eliminating the need for multiple expansion cards in passive backplane systems. The Neptune II chipset supports processor speeds from 75 MHz to 200 MHz with up to 192 MB of RAM and configurable cache options. Technical Specifications Processor Support Intel Pentium processors: 75 MHz, 90 MHz, 100 MHz, 120 MHz, 133 MHz, 155 MHz, 166 MHz, or 200 MHz LIF (Light Insertion Force) socket Heat sink included; fan cooling recommended above +40°C Memory & Cache RAM: Up to 192 MB across four 36-bit SIMM sockets (two banks) Onboard cache: 256 KB or 512 KB options with plug-in module upgrade capability Bus Architecture ISA bus: 8.33 MHz clock rate PCI bus: 25 MHz, 30 MHz, or 33 MHz clock rate with DEC bridge support Storage Controllers Floppy: Two drives, 360 K to 2.88 MB densities IDE: Two drives on PCI local bus, LBA and PIO mode 3, up to 12 MB/sec throughput SCSI-2: Adaptec AHA 2940 compatible, single-ended, selectable 8-bit or 16-bit operation, up to 20 MB/sec (16-bit wide), 68-pin connector Video & Interfaces Integrated video controller with 1 MB DRAM standard High-speed serial ports and integrated parallel port VGA port integrated System Features Watchdog circuit included Hi-Flex Pentium AMIBIOS with Flash EPROM Onboard controllers individually enabled/disabled via BIOS Key Features Reduced expansion card requirement on passive backplanes XXCAL Lab's Gold Certificate for compatibility and performance CE certified when integrated into CE-compliant chassis FCC Class A compliance for commercial environments Typical Applications Industrial control systems, factory automation, embedded computing in harsh environments, and legacy system maintenance requiring Pentium-era processing.

SB586PV Characteristics / Specifications

PARAMETER	VALUE
Model	SB586PV
Manufacturer	Kontron / ICS Advent / Industrial Computer Source
Instrument Type	PICMG PCI/ISA CPU board
Series	SB586P / SB586PV
Alias	SB586PV; SB 586 PV
Chipset	Intel 430NX
CPU Socket	Socket 7 LIF
CPU Range	Intel Pentium 75 MHz to 200 MHz
Example CPU Listing	Pentium 166 MHz
Example DRAM Listing	64 MB
Example Cache Listing	512 kB
SIMM	four sockets, two banks, 36 bit SIMMs
DRAM Max	192 MB
Cache Option	256 kB or 512 kB module
SCSI	Adaptec AIC-7880P onboard
Graphics	VGA onboard (PV)
LAN	no LAN on this PV identity
Parallel	yes on PV
Serial	high speed onboard
Disk Controllers	onboard
Bus External	ISA with PCI extension
PCI Bridge	DEC bridge for additional PCI peripherals
BIOS Disable	onboard controllers may be disabled
Heatsink	included; fan recommended above +40 C
Certification	XXCAL Gold; CE in CE chassis

PARAMETER	VALUE
Form Factor	PICMG SBC
Status	legacy Socket 7
Not CompactPCI	PICMG 1.0 / ICS Advent SBC
Compared SB586P	P versus PV I/O stuffing (VGA/parallel)
Replacement	later PICMG Pentium/Celeron SBCs
Confirm Clock	75 to 200 MHz on the installed CPU
Confirm RAM	SIMM size and pair population Notes Specs from ICS Advent/Kontron SB586P(V) series description and SB586PV listing identity (430NX, AIC-7880P SCSI, VGA, no LAN, Socket 7). Confirm CPU MHz, SIMM size, cache module, andPversus PV I/O.

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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Confirm Clock: 75 to 200 MHz on the installed CPU

Confirm RAM: SIMM size and pair population

Notes

Specs from ICS Advent/Kontron SB586P(V) series description and SB586PV listing identity (430NX, AIC-7880P SCSI, VGA, no LAN, Socket 7). Confirm CPU MHz, SIMM size, cache module, and P versus PV I/O.

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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NIST-traceable calibration · SAM registered ·
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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.