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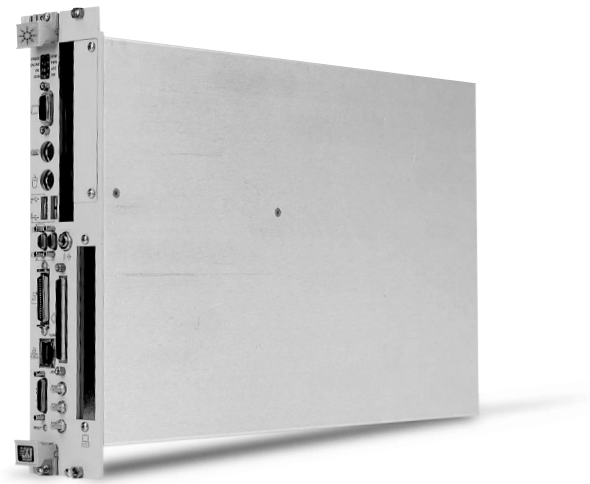
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Find the *Keysight / Agilent E9851A* at our website: ***Click HERE***

Agilent E9851A
VXI Embedded PC, 700 MHz

Data Sheet

- **2-Slot, C-size, message based**
- **700 MHz Intel Pentium® III Processor (or better)**
- **VXI*plug&play* compatible with Windows NT® 4.0**
- **VISA and SICL support**
- **128 MB standard SDRAM memory**



Agilent E9851A

Description

The Agilent Technologies E9851A is a **C-size, 2-slot, message-based VXI embedded PC running Win NT 4.0 operating system**. The E9851A can be embedded in various Agilent VXI mainframes including the E84XX series, E1401B or E1421B.

Standard features include a 6 GB (or larger) Ultra DMA 33 (or better) hard drive/disk, a 3.5-inch 1.44 MB floppy drive, and 128 MB RAM standard memory that can be expanded to 384 MB using standard SODIMMs in two free sockets.

Standard features also include an internal AT/PCI expansion slot that accepts a full-length PCI card, or a 16-bit XT-height ISA bus card. In addition, two front panel slots can accept one Type I/II/III and one Type I/II PC card (PCMCIA) peripherals.

Several standard I/O ports include an Advanced Graphics Port (AGP), a 2 MB 64-bit accelerated SGRAM port for SVGA connection, a Wide Ultra SCSI-3 port, a 10/100 BaseT (RJ45) Ethernet port, an IEEE 488.2 GPIB port, two RS-232 serial ports, an IEEE-1284-compatible parallel port, and two USB ports. (Note: USB not supported in Win NT 4.0.) A PS/2 keyboard and PS/2 mouse are required but not provided; a PS/2 keyboard adapter is provided.

Refer to the Agilent Technologies Website for instrument driver availability and downloading instructions, as well as for recent product updates, if applicable.

Note: The Agilent E9851A includes a 2.5-inch hard drive designed for relatively low-usage notebook PC applications. For applications requiring more than one disk read/write per minute over continuous long periods, premature hard drive failure may occur. For such applications, consider using an external SCSI hard drive.

Agilent Technologies

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Product Specifications

Processor:	Intel Pentium III (or better)
Clock speed:	700 MHz
O.S. (earliest supported):	Windows NT 4.0
Internal mass storage:	6 GB Hard Drive 3.5-in. Floppy Drive (see Note below)
Main memory:	128 MB standard expandable to 384 MB using SODIMMS
Available internal slot:	Accepts full-length PCI or 16-bit XT-height ISA card
Available front panel slots:	Two PC card (PCMCIA) slots that accept one Type I/II/III and one Type I/II cards
Standard built-in interfaces:	Wide Ultra SCSI-3 port (AGP) 2 MB 64-bit accelerated SGRAM SVGA port 10/100 BaseT Ethernet port IEEE 488.2 GPIB port Two RS-232 serial ports IEEE-1284 parallel port Two USB ports* * (not supported in Win NT 4.0)
Included cables:	GPIB cable RS-232 cable IEEE-1284-2 cable (printer) PS-2 keyboard adapter (DIN 5F/MINI 6M)

Advanced Graphics Port (some of the supported resolutions):

Resolution	**Number of colors**
640 x 460	16 M colors
800 x 600	16 M colors
1024 x 768	64 K colors
1280 x 1024	256 colors
1600 x 1200	256 colors

Additional front panel connectors/functions:	10 MHz Clock I/O SMB connector Trigger-In SMB connector Trigger-Out SMB connector Audio Out (speaker) connector Keyboard connector Mouse connector
Front panel LEDs:	
VXIbus interface status LEDs (indicate initialization stages as PC boots):	FAIL SYSF ONLINE PWROK
Board access LEDs (indicate that board resources have been accessed):	ACC DRV SCSI
Ethernet LEDs (indicate Ethernet interface status):	RX/TX LNK 100B-T

Note: Processor, RAM and hard disk technologies are improving rapidly, so the Agilent E9851A processor, RAM and hard disk may be upgraded without notice.

Environmental Specifications

EMC specifications:	Meets CISPR 11, 1990/EN 55011 (1991): Group 1, Class A
EMI specifications:	FCC Class A verified
Functional shock:	MIL-T-28800E Class 3 (30 g peak, half sine shock pulse). Also meets IEC 60068-2-27.
Random vibration:	MIL-T-28800E MIL-STD-810E Category 1
Operating:	5 to 500 Hz, 0.3 g_{rms}, 3-axes
Non-operating:	5 to 500 Hz, 2.4 g_{rms}, 3-axes
Operating environment:	
Ambient temperature:	0 to 50 °C
Relative humidity:	10% to 90% non-condensing
Storage environment:	
Ambient temperature:	-20 to + 70 °C
Relative humidity:	5% to 95% non-condensing
Maximum altitude:	
Operating:	10,000 ft
Non-operating:	40,000 ft

General Specifications

General Characteristics

Dimensions:	233.4 mm high x 340 mm deep (9.2 in. x 13.4 in.)
Weight:	2.5 Kg (5.5 lbs.)
VXI slots required:	2

VXI Characteristics

VXI device type:	Message based
Size:	C
Slots:	2
Connectors:	P1/P2
VXI buses:	TTL Trigger Bus ECL Trigger Bus

Cooling/Slot (preliminary)

Watts/slot:	24/slot (48/2-slots)
ΔP mm H_2O:	0.07
Air flow liter/s:	1.9

Module Current (preliminary)

	I_{PM}	**I_{DM}**
+5 V:	9.0 A	4.0 A
+12 V:	70 mA	30 mA
–12 V:	10 mA	10 mA
+24 V:	1 mA	1 mA
–24 V:	1 mA	1 mA
–5.2 V:	350 mA	30 mA
–2 V:	100 mA	6 mA

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Ordering Information

Description	Product No.
VXI Embedded PC, 700 MHz (Includes operating manuals)	E9851A*
128 MByte PC100 SODIMM RAM Module	E9851A 001
Convert to 1-year on-site warranty	E9851A W01

** Standard warranty is one year return-to-Agilent.*

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