



PRODUCT OVERVIEW · ALPHA VIRTUALIZATION

vtAlpha

Virtual Alpha Emulation Software

Alpha systems lock their owners into rare platforms that are hard to support and can't integrate with modern IT. vtAlpha moves your **entire Alpha software installation to x86-64 hardware, a virtual machine, or the cloud**, with no changes and no software migration.

Six variants cover the full range of Alpha systems manufactured, saving enormous amounts of effort, time, and money.

HOW VTALPHA MIGRATION WORKS

- 1 Specify**
Document the configuration of the current Alpha computer.
- 2 Build**
vtAlpha builds a virtual equivalent of that hardware on a modern host.
- 3 Transfer**
Binary image copies of the original Alpha disks move to the virtual Alpha host.
- 4 Boot**
System managers boot from the copied disks and resume normal operations.



No software changes

Real-time emulation presents the hardware interfaces your OS and programs expect.



Bare metal install

No Windows or Linux distro required, and no extra operating system to buy or maintain.



Secure & highly available

The bare metal approach supports security and high availability.



Modern infrastructure

Uses modern storage, backup, and IT infrastructure, transparently to the Alpha.

Product Variants

Product	CPUs	Supported Alpha Models
vtAlpha-AS Alpha Start	1	AlphaStation 200, 250 · AlphaServer 300, 400 · DEC 3000
vtAlpha-BS Basic Systems	1	AlphaServer 800, 1000 · AlphaStation 500, 600, DPW · AlphaStation XP900, XP1000
vtAlpha-CS Classic Systems	1-4	AlphaServer 2000, 2100 · AlphaServer 4000, 4100
vtAlpha-DS DS Systems	1-2	AlphaServer DS10, DS15 · AlphaServer DS20, DS25 · AlphaServer 1200
vtAlpha-ES ES Systems	1-4	AlphaServer ES40, ES45, ES47
vtAlpha-GS GS Systems	1-32	AlphaServer ES80, GS80, GS160, GS320, GS1280

Storage

vtAlpha presents every hardware interface the virtualized Alpha expects, including KZPBA SCSI and KGPSA FibreChannel adapters, along with the storage devices it is used to seeing. Behind the scenes, the host uses modern storage technologies that stay transparent to the Alpha software, which still sees its original device types.

Host-based storage options



All Alpha disk types and sizes are supported.

Product origin: vtAlpha is developed, maintained, and owned by Advanced Virtualization Technologies (avtware.com) and distributed in the Americas by Vere Technologies LLC. Salem Automation is the largest value-added reseller (VAR) of Vere Technologies' emulation software in the Americas.



Supported Storage Devices

Logical disks & tapes

Regular devices to the Alpha, files on the host. Many virtual disks can share one host disk, and logical tapes join regular backups.

Physical disks & tapes

Assign a physical disk or partition to a virtual disk, or connect a physical tape or disk drive to a virtual Alpha device.

CD-ROM / DVD

Physical DVD and CD-ROM drives, and ISO images, connect to vtAlpha as virtual CD-ROMs.

Direct SCSI devices

Connect generic SCSI devices that have a custom driver in the Alpha OS. vtAlpha only processes the SCSI communication.

Networking

Virtual Ethernet adapters:

DEGXA

EI1000

DE600

DE500

DE450

DE435

DEGXA and EI1000 availability is model dependent.

Virtual network switches share the host's Ethernet links across multiple virtual Alphas. All Alpha guest OS-supported protocols run on vtAlpha, VLANs are supported, and connection speeds can exceed the original adapters thanks to modern host hardware.

>_ Serial Lines

The two COM ports on every Alpha system (OPA0 and COM2) can be mapped to:

- A physical VT-like device connected to the host
- Any VT terminal emulator through Telnet or SSH
- A pseudo-terminal on the host's console

The PBXDA serial lines adapter adds eight more lines; up to seven PBXDA adapters are supported.

System Management

The included **vtMonitor** tool is an easy-to-use, intuitive interface for organizing and controlling the virtual Alpha systems and their host environments from any location with network access to the vtAlpha host.

Security

A secure environment, configurable to meet organizational requirements:

- Access roles and configurable security levels
- Secure communication protocols
- Encrypted environment in the cloud service
- Configurable event logging and alerts

Licensing & Protection

vtAlpha is available under an End-User License, stored on a compact USB smart card device only 3 mm high for maximum compatibility and minimal risk of damage or accidental removal.

The License Protection Mechanism can control multiple vtAlpha instances on one host or across a company network, providing flexibility and failover for low-cost, disaster-tolerant installations.

Orderable Items

Software License

Runs a single virtual Alpha system, including all virtualized Alpha hardware, up to 32 GB Alpha memory, and a specified number of Alpha CPUs.

Annual Software Support Service

Free access to the vtAlpha support group, plus the right to install newer versions during the *term of the support agreement*.

Disaster Recovery License

720 hours of the selected vtAlpha product to survive a host hardware breakdown.

Ready to move off Alpha hardware?

Talk with Salem Automation about running your Alpha software on vtAlpha, with no changes and no software migration.

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