



# CHARON™-AXP/SMA for Windows

## Alpha Hardware Virtualization Software

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## HP Transfer Licenses

Hewlett-Packard (HP) recognizes CHARON-AXP as a valid Alpha replacement platform to run OpenVMS, and CHARON-AXP has passed the original Alpha hardware qualification tests. HP provides transfer licenses for the Alpha/OpenVMS and Tru64 operating systems and layered products, so that customers can continue to use their HP software and support contracts without modification.

The CHARON-AXP family of products allows you to replace your existing Alpha computer systems with a general purpose computer without making changes to your software. It provides a quick, low risk, and inexpensive method of replacing your Alpha systems now that they have been retired by Hewlett-Packard. The benefit of CHARON-AXP solutions is that you can continue to use your valuable applications without change, maintain your existing operating procedures, cut down on operational costs, and reduce energy consumption. The CHARON-AXP products can replace almost every Alpha computer that has ever been manufactured.

CHARON-AXP/SMA for Windows is designed to replace the lower end of the Small and Medium Alpha product range. CHARON-AXP/SMA is typically suited to replace the following Alpha systems:

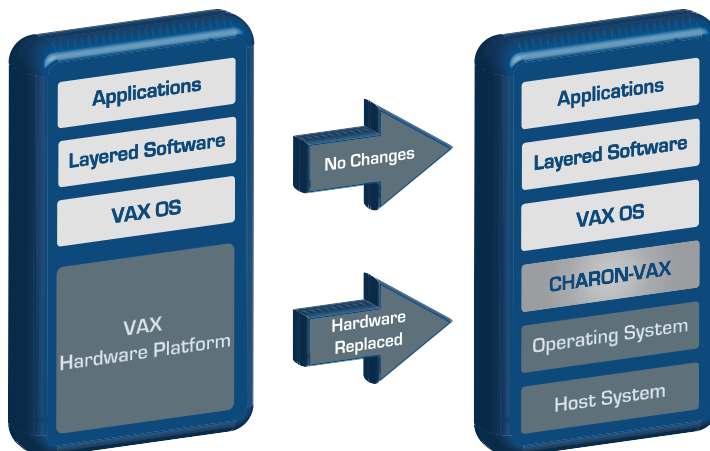
- AlphaServer 300
- AlphaServer 400
- AlphaServer 1000
- AlphaServer 2000
- AlphaServer 2100

CHARON-AXP/SMA has passed the original hardware qualification tests and is recognized by Hewlett-Packard (HP) as a valid AlphaServer replacement platform to run OpenVMS or Tru64. HP provides transfer licenses for the Alpha operating system and layered products, so that customers can continue their HP software support contracts without modification.

The Alpha operating system procedures, user interface, network functionality and clustering are indistinguishable from a hardware-based Alpha environment. The virtual system has been extensively tested with the standard OpenVMS and Tru64 software, without software modification of any kind. There is no need for application sources; binary code and data can be copied in the usual manner.

CHARON-AXP/SMA lets you:

- Run your AlphaServer based software on non-Alpha hardware, without a change
- Quickly replace the Alpha computer using a general purpose computer
- Cut down on operational costs of the hardware and energy consumption
- Combine multiple AlphaServers onto one host platform (additional savings)



## Software Product Description CHAXP-800IP-WI

### Product Details

- Runs on a standard Intel/AMD based system with Windows x64 2003 Server or XP professional installed
- The CHARON-AXP/SMA base license provides a virtual Alpha system with 1 CPU and 4 GB of memory.
- Disk and tape storage are virtual, using container files or physical drives on the host system or on a storage server allowing backup with standard tools.
- Industry standard Ethernet adapters are used for Local Area Network connection.

### Features Matrix

Virtualized Hardware	CHARON-AXP/SMA	
	21064 or EV4	21164 or EV5
Alpha CPU	21064 or EV4	21164 or EV5
Maximum Alpha Memory	4 GB	4 GB (+ 4 GB option)
Max # of storage or Ethernet adapters	20	20
SCSI disk support (DKx)	Yes	Yes
SCSI tape drive support (MKx)	Yes	Yes
Raw SCSI device (GKx)	Yes	OpenVMS only (*)
FibreChannel disk support (DGx)	OpenVMS only (*)	OpenVMS only (*)
IDE disk support (DQx)	OpenVMS only (*)	
MSCP disk support (Dux)	OpenVMS only (*)	OpenVMS only (*)
DSSI disk support (Dlx)	OpenVMS only (*)	
EISA RAID disk support (DRx)	OpenVMS only (*)	
Serial Lines support, 8 ports (PBXDA)	Yes	Yes
Earliest OpenVMS release	6.2-1h3	6.2-1h3
Earliest Tru64 release	3.1	4.0

### Ordering Information

Base Product License  
 Additional Virtual CPU  
 Additional Virtual Alpha Memory  
 GOLD Support  
 PLATINUM Support (\*)

#### CHARON-AXP/SMA for Windows

CHAXP-800IP-WI  
 CHAXP-800CP-WI  
 CHAXP-4GB-WI  
 CHAXP-800IU-WI  
 CHAXP-800IT-WI

(\*)Subject to geographical availability

### Host System Requirements

Windows 64-bit capable Intel Xeon (5000 or 7000 series) or AMD Opteron (2000 or 8000 series) server, 3 GHz or better  
 Number of physical CPU's or CPU cores: Each instance of CHARON-AXP/SMA for Windows requires two dedicated CPU cores in the host system.  
 Windows Server 2003. 64 bit version  
 Memory requirement for each instance: 1.5 GB + emulated Alpha memory  
 Minimum one USB-slot for the license key  
 CD-ROM  
 Minimum 1 Ethernet adapter for each instance  
 Sufficient disk space to store the original Alpha disk content  
 CHARON-AXP/SMA for Windows does not include any OpenVMS or Tru64 software or licenses.

### Product Contents

Distribution CD  
 USB license key dongle  
 Installation instruction  
 Online documentation

### License Key

The CHARON hardware license key is permanently connected to the host system running the software. It preserves the customer specific license parameters, allows remote electronic updates and enables rapid change of host systems as the CHARON executable itself can be installed on multiple systems.

The MTBF (mean time between failures) of the key is more than 100 years. For mission-critical applications, a backup key containing 720 hours execution time can be ordered to meet any disaster recovery plan that requires replacement hardware.

### Warranty

The 3 months standard warranty for this product is the readability of the distribution media.