

LAC/E³² Acquisition Server

INTRODUCTION

Waters® LAC/E³² (version 15) Acquisition Server is a purpose-built solution designed to perform instrument control, data acquisition, remote processing, and data buffering activities – while providing enhanced raw data security, robust remote access to instruments, and enhanced system performance.

CONFIGURATIONS

Microsoft® Windows® 7 Professional (64-bit) for Windows Embedded Enterprise

LAC/E³² Dual Windows 7 English 176003223

Preinstalled with Windows 7 Professional 64-bit for Windows Embedded Enterprise, includes four Instrument Ethernet network ports, a corporate Ethernet network port, and two system control licenses.

LAC/E³² Quad Windows 7 English 176003225

Preinstalled with Windows 7 Professional 64-bit for Windows Embedded Enterprise, includes four Instrument Ethernet network ports, a corporate Ethernet network port, and four system control licenses.

Serial LAC/E³² Dual Windows 7 English 176003227

Preinstalled with Windows 7 Professional 64-bit for Windows Embedded Enterprise, USB to Serial Converter w/cabling, includes four Instrument Ethernet network ports, a corporate Ethernet network port, and two system control licenses.

Serial LAC/E³² Quad Windows 7 English 176003229

Preinstalled with Windows 7 Professional 64-bit for Windows Embedded Enterprise, USB to Serial Converter w/cabling, includes four Instrument Ethernet network ports, a corporate Ethernet network port, and four system control licenses.

Hardware Only LAC/E³² Windows 7 English 668000443

Preinstalled with Windows 7 Professional 64-bit, includes four Instrument Ethernet network ports, and a corporate Ethernet network port. No system control licenses are provided with this configuration.



Waters system control licenses

The eLAC/E³² Quad, and eLAC/E³² with Serial Quad Acquisition Servers come with four Waters' system control licenses. The eLAC/E³² Dual and eLAC/E³² with Serial Dual Acquisition Servers come with two Waters system control licenses.

Supported systems

The LAC/E³² Acquisition Server delivers flexibility in deploying various Waters and third-party instruments, as Empower® Software supports over 450 UPLC®, HPLC, MS, and GC modules. Up to four active chromatographic systems can be online at one time on a LAC/E³² Acquisition Server, although this number may vary depending on the detector and its resolution settings.

	eLAC/E ³² (Ethernet Control)	Serial support adds:	PCI busLAC/E board adds:
Waters ACQUITY UPLC® System	✓		
Waters HPLC systems	✓		(legacy IEEE)
Acquisition from any LC or GC system using Waters e-SAT/IN Module	✓		
Agilent 7890 GC	✓		
Agilent 6890 GC		✓	
Agilent 6850 GC	✓ *	✓	
Agilent LC	✓		

*Requires 6850 serial number > US10243001

FEATURES

Storage redundancy support

The LAC/E³² Acquisition Server is equipped with (two) non-hot swappable SATA hard disk drives configured as a RAID-1 volume. RAID-1 is also known as disk mirroring, which allows the system to write data on two duplicate hard disk drives simultaneously. Within the operating system, these two hard disk drives appear as one logical hard disk drive. If one hard disk drive should fail, the LAC/E³² can instantly and automatically switch to the other hard disk drive without any loss of data or service.

Operating system details

- Windows 7 embedded enterprise operating system preinstalled and configured for Empower Application requirements
- Maintains application compatibility found with traditional operating system
- New product licensing terms and conditions
- Extended product availability from Microsoft
- Connectivity to the enterprise

Hardware specifications

- 4th Gen Intel Core i7-4770S Processor (Quad Core HT, 3.10 GHz Turbo, 8 MB, w/ HD Graphics 4600)
- Intel Q87 Express Chipset
- 8 GB (2x4 GB) 1600MHz DDR3 Non-ECC
- (Two) 1 TB Serial ATA 7200 RPM hard disk drives configured as RAID1 volume w/ integrated SATA RAID controller
- 16X Max DVD-ROM Drive
- (One) Intel i450-T4 Quad port network card (PCIx16) (Instrument LAN Bridge)
- (One) Integrated Intel® I217LM Ethernet LAN 10/100/1000 (Corporate LAN, on Motherboard)
- On-board Intel GMA 4600 graphics controller, will dynamically utilize up to 256 MB of video memory
- Supports Waters PCI multi-system busLAC/E board* (PCI busLAC/E must be purchased separately)
- Serial support includes support of up to four USB-to-serial cables, four null-modem cables, and installation instructions

LAC/E³² dimensions (within 0.25 inches, 0.6 cm)

Weight: Approximately 20.6 lbs/9.38 kg

Size: 14.2" x 6.9" x 16.4" / (36.0 mm x 17.5 mm x 41.7 mm)

**Allow additional space in back for cover removal, cable access, and air flow.*

Operating specifications

Ambient operating temperature range: 10 °C to 45 °C (50 °F to 113 °F)

Ambient operating relative humidity range: 20% to 80%, non-condensing

Shipping and storage environment:

- -40 °C to 60 °C (-40 °F to 140 °F)
- 90% maximum relative humidity

Waters

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Waters Corporation
34 Maple Street
Milford, MA 01757 U.S.A.
T: 1 508 478 2000
F: 1 508 872 1990
www.waters.com