actiLib Kodiak 3416 LTO Tape Library

Scalable LTO Tape Library fulfils today's and future Needs in medium sized IT Environments

Product Highlights

- Scalable LTO Tape Library with LTO-9, LTO-8 or LTO-7 Tape Technology (also used in mix)
- Basic Module: 3U rackmount chassis with 40 slots, up to three LTO tape drive modules, and dual, redundant power supply
- Expansion Module: 3U rackmount chassis with 40 slots, up to three additional tape drive modules, and optional dual, redundant power supply unit 80PLUS
- More than 28PB* capacity in 640 LTO Slots (fully expanded in 48U)
- FibreChannel 8Gb/s or SAS 6G / 12G Interfaces
- Compatible to most common backup software like: Veeam, Veritas BackupExec, ARCserve, Acronis, Commvault, SEP, Spectrum Protect, NetBackup, Networker, Archiware etc.
- Compatible to most common Host Bus Adapters like: HP, Dell, IBM, Broadcom/LSI/Emulex, Microsemi/Adaptec, ATTO etc.
- Management via Web-GUI (RJ45 GbE) or directly via OCP (Operator Control Panel)
- 36 months limited warranty incl. Fast Exchange Service (FES), also Onsite. Service extension up to 60 months available as option

actiLib Kodiak 3416 – Basic Module (BTL)

The basic module already offers outstanding performance features. Equipped with current LTO-9 Tape Drives, 40 LTO media have a total capacity of almost 1,8PB*. With the installation of up to three LTO tape drives, about 3TB* per hour transfer rate (native) can be realized.

actiLib Kodiak 3416 – Expansion Module (ETL)

Up to fifteen (15) other expansion modules can be connected to one basic module and provides 640 LTO slots and more than 28PB* of storage capacity. As a result, the actiLib Kodiak 3416 LTO Tape Library is scalable and can be flexibly adapted to future growing demands.

Ready for Future LTO Tape Technologies

New LTO Tape Drive Modules can be easily added into the actiLib Kodiak 3416 LTO Tape Library. So, future LTO technologies as well as today's one can operate side by side and secures today's investments.

High Efficiency

With 13 slots per rackmount unit (1U), the actiLib Kodiak 3416 offers the highest capacity with the best use of space. Due to optimal scalability with additional expansion modules, the LTO Tape Libraries grows with the future demands instead of purchasing a complete new systems.

Easy Administration

actiLib Kodiak 3416 will be managed via the multilingual GbE web interface. All important functions can also be managed through the built-in OCP Control Panel.

* Calculation with data compression, factor 1:2,5

Service & Support included

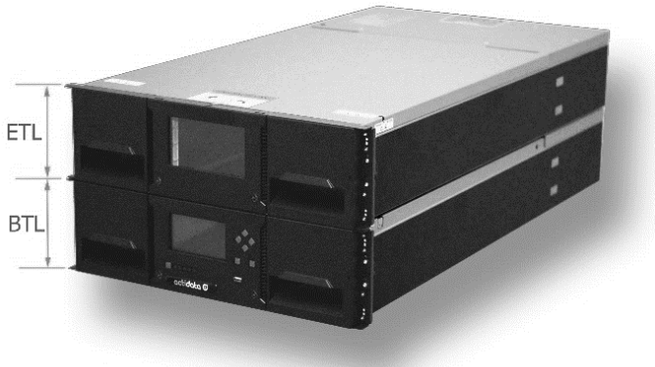
actiCare service stands for a 36-month limited warranty including the proven Fast Exchange Service (Advance Replacement of defective parts) as well as free technical support by phone, e-mail and internet in English. On request, actiCare services are available – also onsite – for up to 60 months.

actiLib Kodiak 3416

LTO-Backup and –Archive System

Starting with the actiLib Kodiak 3416 Basic Module (BTL), 40 slots for LTO media are already available. The complete robotics for the handling of the built-in LTO tape drives as well as the barcode reader, necessary for easy and quick inventory, are already installed.

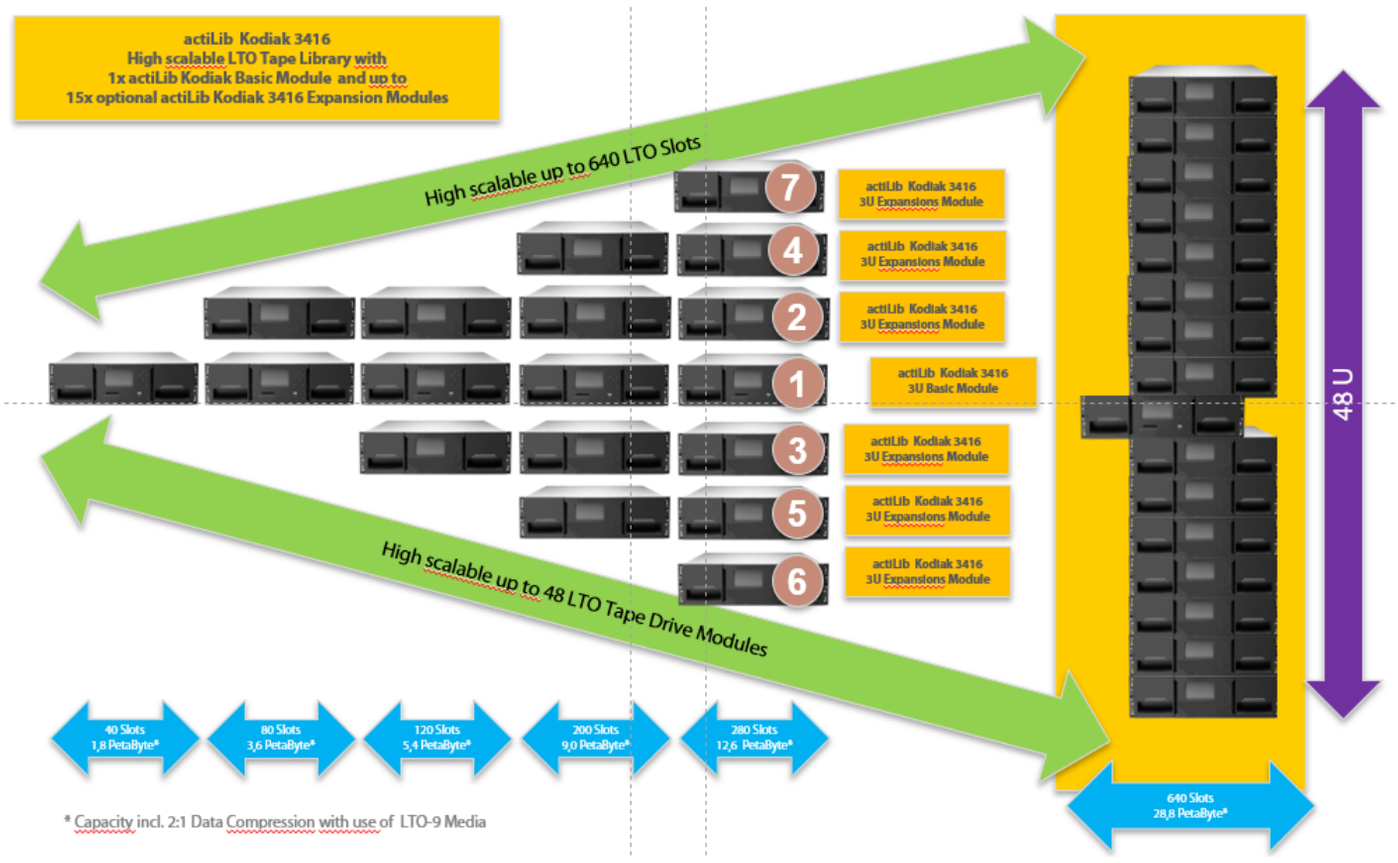
The extension with up to six actiLib Kodiak 3416 Expansion Units (ETL) will be done by installing them above or below the Basic Module. Each Expansion Unit provides additional 40 slots and, unless another LTO tape drive is used, will operate without own power supplies.



Each module has two removable magazines each with 20 slots for LTO media and five slots per module being used as mail-slots for selective access to LTO media.

Scalable up to 640 Slots in 48U rack

As a highly scalable LTO Tape Library with one Basic Module and up to six Expansion Modules, the actiLib Kodiak 3416 is recommended as an optimal, growing LTO Tape Library for medium-sized IT environments.



LTO Tape Drive Module – LTO-9, LTO-8, LTO-7

Depending on the requirements of the IT environment, the actiLib Kodiak 3416 can use three LTO Tape Drives per Basic or Expansion Module. Different LTO technologies can also be use in a mix.

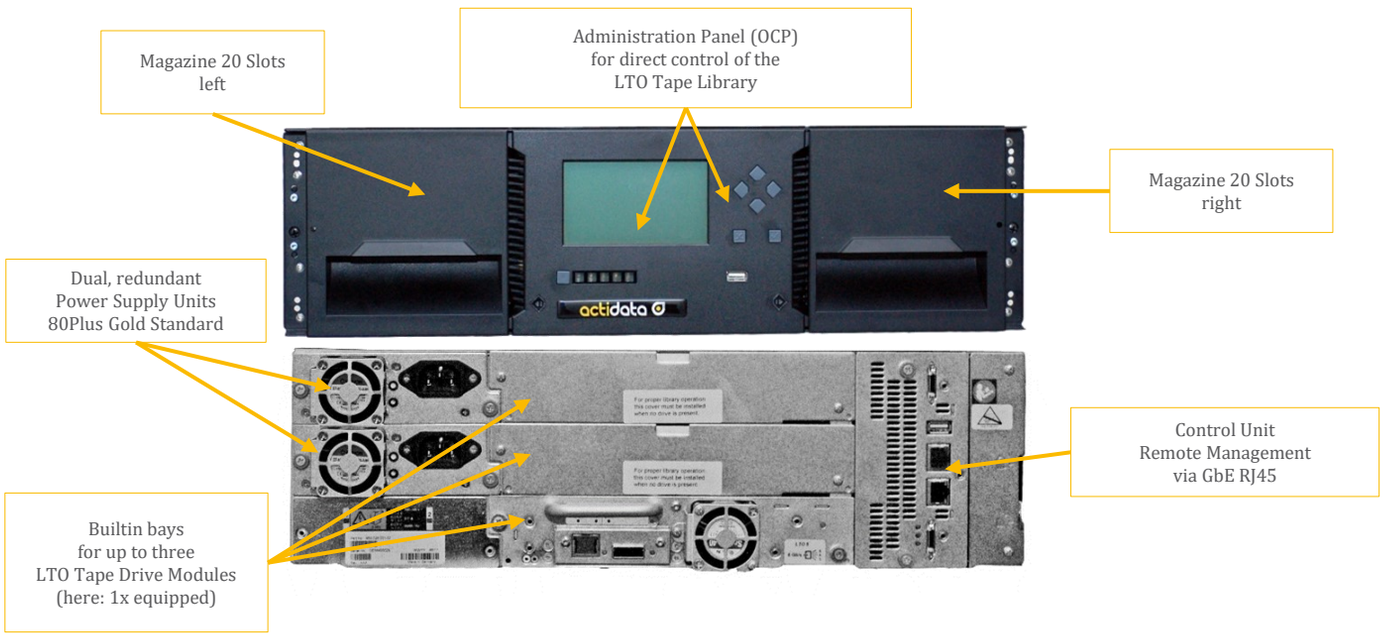
Drive Technology	LTO-7	LTO-8	LTO-9
Max. Capacity per Media native / DC*	6 TB / 15TB	12TB / 30TB (L8) 9TB / 22,5TB (M8)	18TB / 45TB
Max. Data transfer rate native / DC*	300 MB/s / 750 MB/s Dynamic Control	300 MB/s / 750 MB/s Dynamic Control	300 MB/s / 750 MB/s Dynamic Control
Interface per LTO Tape Drive	2x SAS 6Gb/s (SFF8088) /1x FC 8Gb/s (Standard) / 2x FC 8Gb/s (Option)	2x SAS 6Gb/s (SFF8088) / 2x FC 8Gb/s (LC-Type)	2x SAS 12Gb/s (SFF8644) / 2x FC 8Gb/s (LC-Type)

* DC= Data Compression: 2,5:1

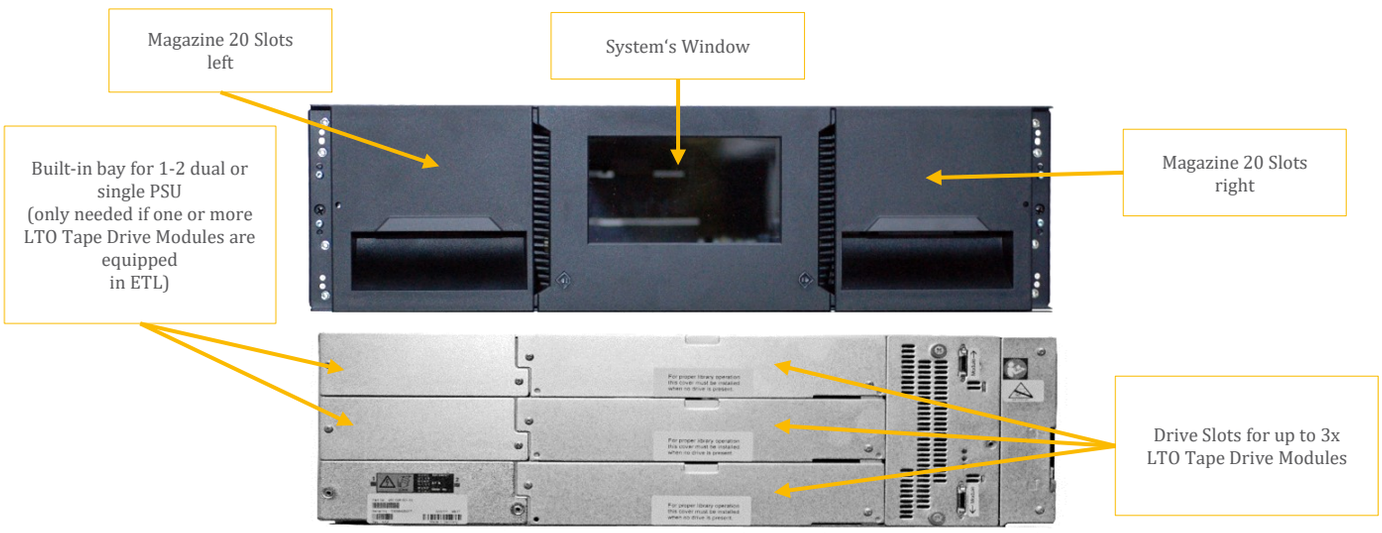
actiLib Kodiak 3416

Flexible configuration – Future upgradeable

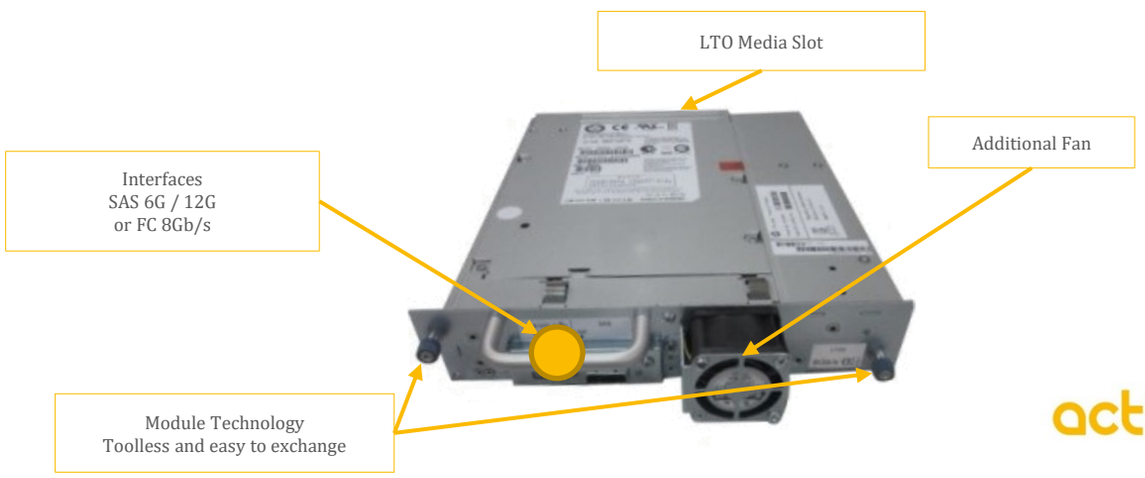
actiLib Kodiak 3416 – Basic Modul (BTL)



actiLib Kodiak 3416 – Expansion Modul (ETL)



LTO Tape Drive Modul for actiLib Tape Automation



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Technical Data

Technical Data	actiLib Kodiak 3416-BTL Basis Module (BTL)	actiLib Kodiak 3416-ETL Expansion Module (ETL)	actiLib Kodiak 3416 Full Expansion
Form Factor Chassis	3 HE – 19“ Rackmount	3 HE – 19“ Rackmount	48 HE – 19“ Rackmount
Number of LTO-Slots	40 Slots	40 Slots	640 Slots
Magazine (swappable)	2	2	32
Mailslots / Barcode-Reader	5 / 1	5 / 0	80 / 1
Number of LTO Tape Drive Modules (HH – hot-swap)	1 – 3	0 – 3*	1 – 48*
Number of logical Libraries (Partitions)	1 – 48 (depend on numbers installed LTO Tape Drive Modules)		
Power Supply Units (hot-swap, 80PLUS Gold Standard)	2 – redundant	-*	2 – redundant*
Administration Panel	OCP (Operator Control Panel) in front of Basic Module 12,2 cm (4“) Panel (monochrome)		
Remote Management / System Protocols	https RMI (Remote Management Interface), multilingual / Support via RJ-45 GbE Support of SMTP, SNMP		
Limited Warranty	3 years, include Fast Exchange Service (Part exchange in advance) (Option: Service extension up to 60 months, Onsite Service)		
Time Initialization	80 – 210 s		
Time average access to Media	29 – 43 s		
Time Inventarization	ca. 50 s (per Module)		
MSBF (MeanSwapBetweenFailure) MTBF (MeanTimeBetweenFailure)	2.000.000 Cycles (Swaps) 125.000 h		
Certificates	Support of most popular Backup Software (i.e. Veritas BackupExec, Veeam, Acronis, Spectrum Protect, EMC Networker, HP Data Protector, SEP, Commvault, Archiware etc.) Manufactured under ISO 9001, ISO 14001 Standards		
Data Encryption (optional)	KMIP Client License for KMIP compatible Key Management Systems (optional)		
Dimension (WxTxH)	482 x 885 x 138 mm (3U)	482 x 885 x 138 mm (3U)	48 Höheneinheiten (48U)
Weight (depend on configurations)	20 kg – 26 kg	18 kg – 25 kg	290 kg – 402 kg
Temperature Operation / Transport	10°C – 35°C (Change <5°C) / -20°C – 50°C		
Humidity Operation / Transport	20% - 50% (recommended with change <5%/h) / 5% - 80%		
Height Operation / Transport	4.000 m / 10.675 m		
Spannungsversorgung / Power Consumption (max.)	100-240V; 1,5-3,5A ca. 170W (w/ 3x LTO)	100-240 V; 1,5-3,5A ca. 170W* (3x LTO)	PSU: 100-240V;1,5-3,5A depend on configuration

Technical Data DC=Data Compression 2,5 : 1	actiLib Kodiak 3416-BTL	actiLib Kodiak 3416-ETL	actiLib Kodiak 3416 Full Expansion
Capacity LTO-7 native / DC Capacity LTO-8 native / DC Capacity LTO-9 native / DC	240TB / 600TB 480TB / 1200TB 720TB / 1800TB	240TB / 600TB 480TB / 1200TB 720TB / 1800TB	3,84PB / 9,60PB 7,68PB / 19,20PB 11,52PB / 28,80PB
Transfer max. LTO-7 native / DC Transfer max. LTO-8 native / DC Transfer max. LTO-9 native / DC	3TB/h / 8TB/h 3TB/h / 8TB/h 3TB/h / 8TB/h	Depend on number of installed LTO Tape Drive Modules	51,2TB/h / 128TB/h 51,2TB/h / 128TB/h 51,2TB/h / 128TB/h

*Additional note valid for actiLib Kodiak 3416 Expansion Modules:
The expansion of the actiLib Kodiak 3416 basic module with up to fifteen actiLib Kodiak 3416 expansion modules is possible without additional power supplies. Only if one or more LTO Tape Drive modules are installed in an expansion module, one or two power supplies (single or redundant) have to be installed.

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