Quantum®

Scalar i40/i80

> DATASHEET

Bringing iLayer Benefits to Small and Medium-Sized Businesses

The Quantum Scalar® i40 and i80 libraries are the easy-to-use tape libraries for the growing storage needs of small and medium-sized businesses, as well as remote office environments of larger enterprises. The Scalar i40 and i80 save time by simplifying everything from initial setup and ongoing management, to adding capacity over time.

The Scalar i40 and i80 include Quantum's iLayer™ software, which provides best-in-class management and monitoring capabilities. iLayer software, shipped in over 50,000 Quantum Scalar libraries, typically reduces library management time by more than 50%. iLayer's easy-to-use interface can reduce business expenses because it does not require a dedicated full-time technical staff member to keep the library up and running smoothly and reliably.

iLayer includes proactive diagnostics, which has been shown to reduce service calls by 50%. Proactive diagnostics provide easy-to-understand messages with specific corrective actions, allowing users to avoid downtime and spend more time doing other things besides managing the tape environment.

Keeping up with data growth is simplified with the Scalar i40 and i80 tape libraries. The COD (Capacity-on-Demand) scalability feature enables the library's capacity to grow on demand with users' data—without disruption. Start with 25 slots and scale up to 40 slots with Scalar i40 (50 slots up to 80 slots for Scalar i80) as your requirements grow, with a software license only—no hardware to purchase or install—providing market-leading investment protection.

To keep your sensitive data or proprietary corporate intellectual property safe, and to meet the increasing government requirements for compliance, both the Scalar i40 and i80 support the US Federal government-recommended encryption standard for the highest levels of security. Tape encryption ensures your data is protected even while being stored offsite.

The Scalar i40 and i80 provide significant benefits over conventional entry-level tape automation products, including better investment protection and less time managing the tape environment. All this, with the confidence of knowing that over 50,000 Scalar libraries with iLayer software have shipped, makes the Scalar i40/i80 the intelligent choice.

FEATURES & BENEFITS

Simplicity
The simplest possible installation, operation and scaling.

Investment Protection
Capacity-on-Demand feature enables easy in-box expansion.

Time Savings
iLayer intelligent management simplifies library management, freeing up valuable time.

Increased Reliability
Industry-leading Reliability Availability Serviceability (RAS) features and proactive monitoring have proven to reduce service calls 50%.

Compliance and Security
Supports government-level security with the highest-level AES 256-Bit Encryption Standard.

Scalar LTFS
Appliance that presents tapes as NAS storage, enabling new ways to manage and access archive files.

> **LEARN MORE:**
> **www.quantum.com/tape**

TECHNICAL SPECIFICATIONS

PHYSICAL SPECIFICATIONS

	SCALAR i40		SCALAR i80	
	Base Configuration	With COD License	Base Configuration	With COD License
Active Tape Slots	25	40	50	80
Max. capacity (w/ LTO-6) @ 2.5:1 compression	156.25TB	250TB	312TB	500TB
Max. capacity (w/ LTO-5) @ 2:1 compression	75TB	120TB	150TB	240TB
Max. Capacity (w/ LTO-4) @ 2:1 compression	40TB	64TB	80TB	128TB
Import/Export	0, 5, or 20	0, 5, or 20	0, 5, 10, 20, 25, or 40	0, 5, 10, 20, 25, or 40
Rack Space	3U		6U	
Physical Dimensions (H × W × D)	5.2" × 17.5" × 31.2" (13.2cm × 44.6cm × 79.2cm)		10.4" × 17.5" × 31.2" (26.4cm × 44.6cm × 79.2cm)	
Weight	45 lbs (20.5 Kg)		66 lbs (30 Kg)	
No. of Drives Supported	Up to 2		Up to 5	
Barcode Reader	Standard			
Remote Management	Standard			
Partitioning	Standard			
Drive Type	LTO-4, LTO-5, and LTO-6			
Interface Options	FC (4Gb with LTO-4, 8Gb with LTO-5 and LTO-6) LC connector SAS (3Gb with LTO-4, 6Gb with LTO-5 and LTO-6) SFF-8088 connector			
Network Interface	10/100Mbs Ethernet Port RJ45 Connector			

COMPLIANCE AND CERTIFICATION

Safety Standards: IEC 60950 with all world-wide country deviations
Emission Standards: Class A of FCC part 15, ICES-003, CISPR 22, EN55022 Class A, VCCI, CNS 13438, KN22, AS/NZS CISPR 22, EN61000-3-2, and EN61000-3-3
Immunity Standards: EN55024, KN24
International Certifications: CE (Europe), VCCI (Japan), GS (Germany), FCC (USA), ICES (Canada), NRTL (USA & Canada), GOST (Russia), BSMI (Taiwan), KCC (Korea)

ENVIRONMENT

Electrical: 100-240 VAC, 50-60Hz
Temperature: 10 to 35°C operating
Humidity: 20 to 80% non-condensing, operating

RELIABILITY

Library MSBF: Greater than 2,000,000
Library MTTR: Less than 30 minutes
Power: Optional 2N power available on i80 models
Diagnostics: Embedded monitoring of major library subsystems, self-diagnostic procedures, and policy-based email and pager alerts to system administrators and Quantum Global Services

COMPATIBILITY

The Scalar i40 and i80 have broad compatibility with storage software and hardware components. Consult the most recent Quantum Compatibility Guide on www.quantum.com for a complete list.

SERVICES AND SUPPORT

StorageCare® Guardian:
Delivers proactive monitoring and integrated RAS notification, which sends email alerts to your designated operator for rapid problem resolution.

Warranty:
One Year, 5×9 Phone Support with Next Business Day CRU replacement and on-site FRU replacement. Additional service contract upgrade response levels are also available. The Scalar i40 and i80 are customer installable; however, installation and integration services are available.

SCALAR i40 MODELS AND DESCRIPTIONS

Base Libraries
LSC14-CB6J-119G	Quantum Scalar i40 Library, one IBM LTO-6 tape drive, 25 slots, Fibre Channel
LSC14-CB6J-219G	Quantum Scalar i40 Library, two IBM LTO-6 tape drives, 25 slots, Fibre Channel
LSC14-CB6N-119G	Quantum Scalar i40 Library, one IBM LTO-6 tape drive, 25 slots, SAS
LSC14-CB6N-219G	Quantum Scalar i40 Library, two IBM LTO-6 tape drives, 25 slots, SAS
LSC14-CB5J-119G	Scalar i40 Library, one IBM LTO-5 tape drive, 25 slots, Fibre Channel
LSC14-CB5J-219J	Scalar i40 Library, two IBM LTO-5 tape drives, 25 slots, Fibre Channel
LSC14-CB5N-119G	Scalar i40 Library, one IBM LTO-5 tape drive, 25 slots, SAS
LSC14-CB5N-219J	Scalar i40 Library, two IBM LTO-5 tape drives, 25 slots, SAS
LSC14-CH4G-119H	Scalar i40 Library, one HP LTO-4 tape drive, 25 slots, Fibre Channel
LSC14-CH4G-219H	Scalar i40 Library, two HP LTO-4 tape drives, 25 slots, Fibre Channel
LSC14-CH4M-119H	Scalar i40 Library, one HP LTO-4 tape drive, 25 slots, SAS
LSC14-CH4M-219H	Scalar i40 Library, two HP LTO-4 tape drives, 25 slots, SAS

SCALAR i40 MODELS AND DESCRIPTIONS (CONT'D)

Premium Libraries
LSC14-CB6J-228G	Scalar i40 Library, two IBM LTO-6 tape drives, 40 slots, Advanced Features Option, Fibre Channel
LSC14-CB6N-228G	Scalar i40 Library, two IBM LTO-6 tape drives, 40 slots, Advanced Features Option, SAS
LSC14-CB5J-228G	Scalar i40 Library, two IBM LTO-5 tape drives, 40 slots, Advanced Features Option, Fibre Channel
LSC14-CB5N-228G	Scalar i40 Library, two IBM LTO-5 tape drives, 40 slots, Advanced Features Option, SAS

Upgrades and Options
LSC14-ULSL-015A	Quantum Scalar i40 COD License, 15 slots
LSC14-UDTK-000A	Quantum Scalar i40 Desktop Kit
LSC14-UQK0-L0HA	Quantum Scalar Key Manager License for Scalar i40
LSC14-UKMZ-L4HA	Quantum KMIP Key Manager License Key for Scalar i40

SCALAR i80 MODELS AND DESCRIPTIONS

Base Libraries
LSC18-CB6J-132G	Quantum Scalar i80 Library, one IBM LTO-6 tape drive, 50 slots, Fibre Channel
LSC18-CB6J-232G	Quantum Scalar i80 Library, two IBM LTO-6 tape drives, 50 slots, Fibre Channel
LSC18-CB6N-132G	Quantum Scalar i80 Library, one IBM LTO-6 tape drive, 50 slots, SAS
LSC18-CB6N-232G	Quantum Scalar i80 Library, two IBM LTO-6 tape drives, 50 slots, SAS
LSC18-CB5J-132G	Scalar i80 Library, one IBM LTO-5 tape drive, 50 slots, Fibre Channel
LSC18-CB5J-232G	Scalar i80 Library, two IBM LTO-5 tape drives, 50 slots, Fibre Channel
LSC18-CB5N-132G	Scalar i80 Library, one IBM LTO-5 tape drive, 50 slots, SAS
LSC18-CB5N-232G	Scalar i80 Library, two IBM LTO-5 tape drives, 50 slots, SAS
LSC18-CH4G-132H	Scalar i80 Library, one HP LTO-4 tape drive, 50 slots, Fibre Channel
LSC18-CH4G-232H	Scalar i80 Library, two HP LTO-4 tape drives, 50 slots, Fibre Channel
LSC18-CH4M-132H	Scalar i80 Library, one HP LTO-4 tape drive, 50 slots, SAS
LSC18-CH4M-232H	Scalar i80 Library, two HP LTO-4 tape drives, 50 slots, SAS

Premium Libraries
LSC18-CB6J-250G	Scalar i80 Library, two IBM LTO-6 tape drives, 80 slots, Dual Power Supplies, Advanced Features Option, Fibre Channel
LSC18-CB6N-250G	Scalar i80 Library, two IBM LTO-6 tape drives, 80 slots, Dual Power Supplies, Advanced Features Option, SAS
LSC18-CB5J-250G	Scalar i80 Library, two IBM LTO-5 tape drives, 80 slots, Dual Power Supplies, Advanced Features Option, Fibre Channel
LSC18-CB5N-250G	Scalar i80 Library, two IBM LTO-5 tape drives, 80 slots, Dual Power Supplies, Advanced Features Option, SAS

Upgrades and Options
LSC18-ULSL-030A	Quantum Scalar i80 COD License, 30 slots
LSC18-URPS-000A	Quantum Scalar i80 Redundant Power Supply
LSC18-UDTK-000A	Quantum Scalar i80 Desktop Kit
LSC18-UQK0-L0HA	Quantum Scalar Key Manager License for Scalar i80
LSC18-UKMZ-L4HA	Quantum KMIP Key Manager License Key for Scalar i80

COMMON UPGRADES AND OPTIONS
LSC1S-UTDJ-L6BA	Quantum Scalar i40/i80 Tape Drive Module, IBM LTO-6, Fibre Channel
LSC1S-UTDN-L6BA	Quantum Scalar i40/i80 Tape Drive Module, IBM LTO-6, SAS
LSC1S-UTDJ-L5BA	Quantum Scalar i40/i80 Tape Drive Module, IBM LTO-5, Fibre Channel
LSC1S-UTDN-L5BA	Quantum Scalar i40/i80 Tape Drive Module, IBM LTO-5, SAS
LSC1S-UTDG-L4HA	Quantum Scalar i40/i80 Tape Drive Module, HP LTO-4, Fibre Channel
LSC1S-UTDM-L4HA	Quantum Scalar i40/i80 Tape Drive Module, HP LTO-4, SAS
LSC1S-AMAG-L20A	Quantum Scalar i40/i80 20-slot Magazine
LSC1S-UADR-000A	Quantum Scalar i40/i80 Advanced Features License

To learn more about Quantum Scalar, please visit www.quantum.com/tape

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