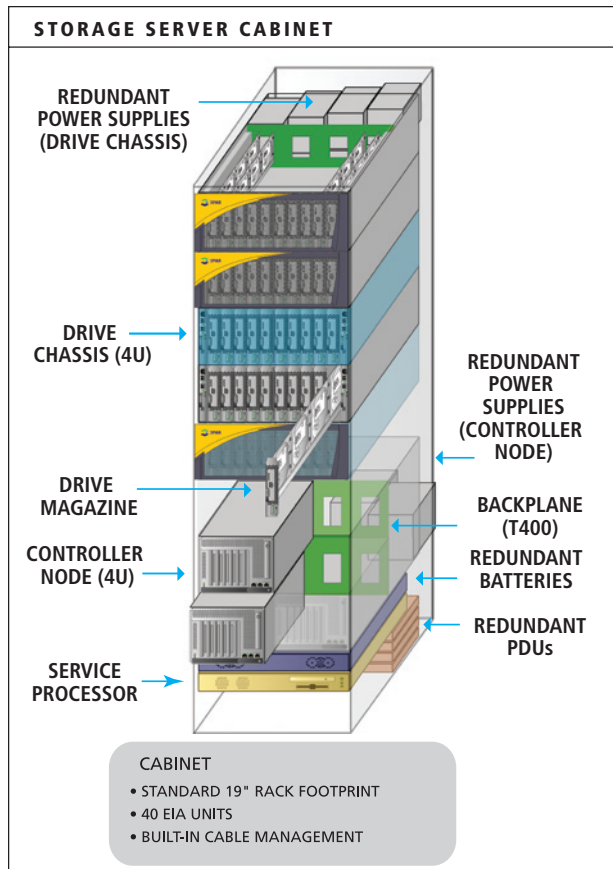


3PAR INSERV STORAGE SERVERS

T400, T800 TECHNICAL SPECIFICATIONS

HARDWARE



3PAR INSERV STORAGE SERVER FAMILY SPECIFICATION†

	T400	T800
SUMMARY		
Number of Controller Nodes	2, 4	2, 4, 6, 8
Controller Node Series	Dual-Core 2.33 GHz	Dual-Core 2.33 GHz
Control Cache	8 – 16 GBs	8 – 32 GBs
Data Cache	24 – 48 GBs	24 – 96 GBs
Maximum Host Ports°		
Fibre Channel Host Ports (with 4-port FC Adapters)**	0 – 64 ports	0 – 128 ports
iSCSI Host Ports***	0 – 16 ports	0 – 32 ports
Number of Drives	16 – 640 drives	16 – 1,280 drives
Raw Capacity (approx.)*	2.3 – 300 TBs	2.3 – 600 TBs
CAPACITY DETAILS		
RAID Levels	RAID 0, 10, 50	RAID 0, 10, 50
RAID 5 Data to Parity ratios	2:1 – 8:1	2:1 – 8:1
Drive Capacities (GBs approx.)† (levels, ratios, & capacities all mixable Storage Server)	146 FC, 400 FC, 750 NL††	146 FC, 400 FC, 750 NL††
Number of Drive Chassis (Drive Chassis holds up to 40 drives in 4U)	2 – 16 Chassis	2 – 32 Chassis

† 1GB=1,000,000,000 bytes

†† 750GB NL drive is Nearline Class

* Max raw capacity currently supported with any and all drive types.

° Fibre Channel and iSCSI host ports are mixable on same 3PAR InServ® Storage Server

°° Each port is full bandwidth 4 Gbit/s Fibre Channel capable

°°° Each port is full bandwidth 1 Gbit/s iSCSI with complete iSCSI and TCP/IP offload

‡ Specifications are subject to change without notice.

3PAR INSERV STORAGE SERVER FAMILY SPECIFICATION†

HOST OS SUPPORT

Microsoft® Windows™	VMware® ESX
Sun™ Solaris™	Egenera® Pan Manager™
HP-UX™	ONStor™ Everon
AIX™	HP Tru64 Unix®
Red Hat™ Linux	NetApp Data ONTAP®
SUSE™ Linux	

PHYSICAL SPECIFICATIONS

2-Meter Cabinet

Dimensions (width x height x depth)	23.8 x 76.4 x 36 in.	60.5 x 194.1 x 91.4 cm
Service Clearance	30 in. (76.2 cm), front and back	
Weight (not populated)	485 lbs.	220 kg
Maximum Weight (fully populated)	1,956.5 lbs.	887.5 kg
Maximum Weight per Leveling Foot	489.1 lbs.	221.9 kg
Maximum Load per Leveling Foot	156 lbs/sq. in.	10.98 kg/sq. cm

Component Weights

InServ T400 Base Configuration†	731 lbs.	331.6 kg
InServ T800 Base Configuration†	792 lbs.	359.2 kg
2 Controller Nodes (fully populated)	160 lbs.	72.5 kg
Drive Chassis (fully populated)	175 lbs.	79.4 kg
Service Processor	16.5 lbs.	7.5 kg

Supported Host FC Connections

FC Connector Type from InServ to Host Port	LC to LC
FC Cable Core Diameter	50- or 62.5-micron
Connector Boot Length	17 mm

† Includes Cabinet and 2 Controller Nodes (fully populated)

†† Power Distribution Unit

* Based on Power Connectors and UL ratings, not actual power draw

** Under maximum load

*** Up to 10 Magazines (40 drives) per Drive Chassis

° Japan Green Law statement of compliance: The energy consumption efficiency value has been calculated per requirements for Category-G Magnetic Disk Drive Units by dividing the power consumption, measured according to the definition in the Law Concerning the Rational Use of Energy, by the storage capacity defined in the Energy Conservation Law. The efficiency value is based on a host-maximized T800 configuration using 146GB drives.

#Specifications are subject to change without notice.



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POWER AND HEAT

Power Supply Requirements

Input Voltage (VAC)	220 (200-240)
Frequency (Hz)	50-60
Circuit Breaker Max.	30 A per PDU** (de-rated to 24 A)
Power Connectors for 2 Meter Cabinet	(4) L6-30P with 1+1 redundant or (4) IEC 60309 with 1+1 redundant
Power Receptacle	(4) L6-30R with 1+1 redundant or (4) IEC 60309 with 1+1 redundant

Maximum Potential Power Draw per 2 Meter Cabinet*

Watts per 2M Cabinet	9,984 / 34,075 watts / BTUs/h
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Actual Power Draw / Heat Dissipation

Service Processor	317 / 1,082 watts / BTUs/h	
Drive Chassis (without Drive Magazines)	200 / 683 watts / BTUs/h	
	Transactional** (watts / BTUs/h)	Idle (watts / BTUs/h)
4 x 146GB FC Drive Magazine ***	75 / 256	57 / 195
4 x 400GB FC Drive Magazine ***	61 / 208	47 / 160
4 x 750GB NL Drive Magazine ***	67 / 229	47 / 160
Controller Node Pair	705 / 2,406	630 / 2,150
Example Full Cabinet Configuration (4-node T400, 6 Drive Chassis, 240 400GB drives, 1 service processor)	6,587 / 22,481	5,597 / 19,103

ENVIRONMENTAL SPECIFICATIONS

Temperature (°F/°C), 0–3,000ft / 0-914.4m	50–104°F/10–40°C
Temperature (°F/°C), 3,000–10,000 ft / 914.4m-3048m	50–95°F/10–35°C
Altitude (ft/m) max.	10,000 ft. / 3,048 m
Humidity (%), Non-condensing	20 – 80 %
Raised Floor	Recommended
Emissions / RFI / EMI	FCC Class A, EN55022 Class A EN55024: 1998, VCCI Class A
Safety	CE Mark, C-TUVus Mark, TUV GS Mark, CB Scheme with all country deviations
Energy Consumption Efficiency° (Japan Green Law)	0.089

INFORM OPERATING SYSTEM INTERFACES

Host Platform Support for InForm Management Console and Command Line Interfaces	Microsoft® Windows XP®, Windows® 2000, Windows® 2003, Sun™ Solaris™ 8 & 9
SSH is supported for CLI. InForm CIM API and SNMP also supported.	