

HP B-SERIES PRODUCT PORTFOLIO

01/09 HP-RG-055-07-C



| | Brocade 8Gb SAN Switch for HP c-Class BladeSystem (Brocade 5480) | Brocade 8Gb Embedded SAN Switch for EVA4400 Controller (Brocade 5410) | HP StorageWorks SAN Switch 8/8, 8/24 (Brocade 300) | HP StorageWorks SAN Switch 8/40 (Brocade 5100) | HP StorageWorks SAN Switch 8/80 (Brocade 5300) | HP StorageWorks Router Blade & MP 400 Router (Brocade FR4-18i Blade & Brocade 7500) | HP StorageWorks SAN Director 4/256 (Brocade 48000) |
|---|--|--|--|--|--|---|---|
| | | | | | | | |
| PART NUMBERS | 8/24c Power Pack+ (AJ822A) 8/24c (AJ821A) 8/12c - 12 port (AJ820A) | EVA4400 Dual Controller with Embedded Switch (AG 805A) | 8/8: Base "0 e-port" 8-port (AM866A) 8/8: Full Fabric 8-port (AM867A) 8/24: Full Fabric 16-port (AM868A) | 8/40: Full Fabric 24-port (AM869A) 8/40: Power Pack+ 24-port (AM870A) | 8/80: Full Fabric 48-port (AM871A) 8/80: Power Pack+ 48-port (AM872A) | MP Router Blade (AG461A) 400 MP Router: - Power Pack (AG459A) - Full Fabric (AG458A) | Power Pack (A7989A) Full Fabric (A7988A) 16-port 4Gb Blade (A7990A) 32-port 4Gb Blade (A7991A) 48-port 4Gb Blade (AG561A) 16-port 8Gb Blade (AK858A) 32-port 8Gb Blade (AK859A) 48-Port 8Gb Blade (AK860A) 6-port 10Gb Blade (AK861A) MP Router Blade (AG461A) iSCSI Blade (AG671A) |
| B-SERIES SFP'S | 4GB SW SFP (AJ715A) 8GB SW SFP (AJ716A) 4GB LW-10km SFP (AK870A) 4GB LW-30km SFP (AN211A) | B-Series 4GB SFP (AJ715A) B-Series 8GB SFP (AJ716A) | 4GB SW SFP (AJ715A) 8GB SW SFP (AJ716A) 4GB LW-10km SFP (AK870A) 4GB LW-30km SFP (AN211A) | 4GB SW SFP (AJ715A) 8GB SW SFP (AJ716A) 4GB LW-10km SFP (AK870A) 4GB LW-30km SFP (AN211A) | 4GB SW SFP (AJ715A) 8GB SW SFP (AJ716A) 4GB LW-10km SFP (AK870A) 4GB LW-30km SFP (AN211A) | 2Gb SW SFP A6515A 2Gb LW-10km SFP A6516A 2Gb LW-35km SFP 300836-B21 4Gb SW SFP A7446B 4Gb LW-10km SFP AE493A | For 8Gb Blades: 4Gb SW SFP (AJ715A) 8GB SW SFP (AJ716A) 4GB LW-10km SFP (AK870A) 4GB LW-30km SFP (AN211A) For 4Gb Blades: 2Gb LW-10km SFP (A6516A) 2Gb LW-35km SFP (300836-B21) 4Gb SW SFP (A7446B) 4Gb LW-10km SFP (AE493A) |
| PORTS | 4 - 8 external ports, supports up to 16 servers internally | 10 | 8, 16, 24 | 24, 32, 40 | 48, 64, 80 | 18 total ports ("16" 4Gb FC) ("2" GigE FCIP) | 16 - 384 Chassis ships with 0 ports installed |
| PORT SPEED | 1/2/4/8 Gbit/ sec external 4 Gbit/ sec internal ports | 1/2/4/8 Gbit/sec external, 4Gbit/sec internal ports | 1/2/4/8 Gbit/sec FC | 1/2/4/8 Gbit/sec FC | 1/2/4/8 Gbit/sec FC | 1, 2, or 4 Gbit/sec FC, Gig E | 1/2/4/8/10 Gbit/sec FC |
| EXPANDABILITY | Ports-on-Demand upgrade licenses, 12 port increment (T5517A) | NA | Ports-on-Demand upgrade license, 8 port increments (T5518A) | Ports-on-Demand upgrade license, 8 port increments (T5519A) | Ports-on-Demand upgrade license, 16 port increments (T5520A) | NA | 16, 32, 48 port modular blades |
| HARDWARE FEATURES | Embedded in the HP c-Class BladeSystem | Completely integrated into the EVA 4400 | Rack Mount Kit Single Switch FRU | Rack Mount Kit Hot swappable power supplies and fan | Rack Mount Kit Hot swappable power supplies and fan | 400 MP Router- Rack Mount Kit Hot swappable power supplies and fan MP Router Blade embedded for the SAN Director 4/256 | Rack Mount Kit Hot swappable power supplies and fan |
| STANDARD BUNDLED SOFTWARE | Brocade FOS (includes Web Tools and Advanced Zoning) Access Gateway, Enhanced Group Management | Brocade FOS (includes Web Tools and Advanced Zoning) Enhanced Group Management | Brocade FOS (includes Web Tools and Advanced Zoning) Enhanced Group Management Access Gateway (8/24) | Brocade FOS (includes Web Tools and Advanced Zoning) Enhanced Group Management | Brocade FOS (includes Web Tools and Advanced Zoning) Enhanced Group Management | Brocade FOS Advanced Zoning Web Tools FC-FC Routing | Brocade FOS Advanced Zoning Web Tools FCIP LTU (T4427A) for MP Router Blade |
| OPTIONAL SOFTWARE UPGRADES (BASE MODELS) | Power Pack+ (T5521A) | Power Pack+ (T5521A) | Power Pack+ (T5521A) Full Fabric (T4261A) | Power Pack+ (T5522A) Integrated Routing (T5528A) | Power Pack+ (T5523A) Integrated Routing (T5529A) | Power Pack (T4426A) 400 MP Router FCIP LTU (T4425A) for 400 MP Router | Power Pack (330882-B21) FICON/CUP (T4401A) |
| LICENSES IN POWER PACK MODEL (ALSO INCLUDES FULL FABRIC MODEL LICENSES) | Fabric Watch ISL Trunking Advanced Performance Monitoring Extended Fabrics Adaptive Networking | Fabric Watch ISL Trunking Advanced Performance Monitoring Extended Fabrics Adaptive Networking | Fabric Watch ISL Trunking Advanced Performance Monitoring Extended Fabrics Adaptive Networking | Fabric Watch ISL Trunking Advanced Performance Monitoring Extended Fabrics Adaptive Networking | Fabric Watch ISL Trunking Advanced Performance Monitoring Extended Fabrics Adaptive Networking | Fabric Watch ISL Trunking Advanced Performance Monitoring Extended Fabrics | Fabric Watch ISL Trunking Advanced Performance Monitoring Extended Fabrics |
| MANAGEMENT | HP StorageWorks Data Center Fabric Manager Professional (free) HP StorageWorks Data Center Fabric Manager Enterprise (T5542A) | | | | | | |

HP B-SERIES PRODUCT PORTFOLIO



| | HP StorageWorks DC SAN Backbone Director Power Pack (Brocade DCX Backbone) | HP StorageWorks DC04 SAN Director Switch (Brocade DCX-4S) |
|---|--|--|
| |  |  |
| PART NUMBERS | Chassis (AK857A) 16-port 8Gb Blade (AK858A) 32-port 8Gb Blade (AK859A) 48-port 8Gb Blade (AK860A) 6-port 10Gb Blade (AK861A) MP Router Blade (AG461A) | Base Chassis (AR478A) Power Pack Chassis (AR479A) 16-port 8Gb Blade (AK858A) 32-port 8Gb Blade (AK859A) 48-port 8Gb Blade (AK860A) 6-port 10Gb Blade (AK861A) MP Router Blade (AG461A) |
| B-SERIES SFP'S | 4GB SW SFP (AJ715A) 8GB SW SFP (AJ716A) 4GB LW-10km SFP (AK870A) 4GB LW-30km SFP (AN211A) | 4GB SW SFP (AJ715A) 8GB SW SFP (AJ716A) 4GB LW-10km SFP (AK870A) 4GB LW-30km SFP (AN211A) |
| PORTS | 16 - 384 Inter-Chassis Link (ICL) option provides additional 512Gb of bandwidth between 2 DCX chassis | Inter-Chassis Link (ICL) option provides up to 256Gb of additional bandwidth between 2 DC04 chassis |
| PORT SPEED | 1/2/4/8/10 Gbit/sec FC | 1/2/4/8/10 Gbit/sec FC |
| EXPANDABILITY | 16, 32, 48 port modular blades | 16, 32, 48 port modular blades |
| HARDWARE FEATURES | Rack Mount Kit Hot swappable blades (CP core switching & port), power supplies and blowers | Rack Mount Kit Hot swappable blades (CP, core switching & port), power supplies and blowers |
| STANDARD BUNDLED SOFTWARE | Brocade FOS Advanced Zoning Web Tools Enhanced Group Management Power Pack+ | Brocade FOS Advanced Zoning Web Tools Enhanced Group Management |
| OPTIONAL SOFTWARE UPGRADES (BASE MODELS) | FICON/CUP (T4401A) Integrated Routing (T5530A) ICL Kit (AK862A) FCIP LTU (T4427A) for MP Router Blade | Power Pack+ (TA640A) FICON/CUP Integrated Routing (TA643A) ICL Kit (TA642A) |
| LICENSES IN POWER PACK MODEL (ALSO INCLUDES FULL FABRIC MODEL LICENSES) | Fabric Watch ISL Trunking Advanced Performance Monitoring Extended Fabrics Adaptive Networking | Fabric Watch ISL Trunking Advanced Performance Monitoring Extended Fabrics Adaptive Networking FCIP LTU (T4427A) for MP Router Blade |
| MANAGEMENT | HP StorageWorks Data Center Fabric Manager Professional (free) HP StorageWorks Data Center Fabric Manager Enterprise (T5542A) | |

POWER IN PARTNERSHIP

Together, Hewlett-Packard and Brocade have led the industry in delivering innovative, strategic SAN solutions. The HP StorageWorks B-Series SAN solutions (built on Brocade technology) provide customers the industry's most complete and comprehensive range of SAN solutions.

NEW INDUSTRY LEADING PRODUCTS FROM HP AND BROCADE

High Performance and Industry Leading Power Efficiency with DC04 SAN Director

Built for midsize networks, the 8U HP StorageWorks DC04 SAN Director provides up to 192 8 Gbit/sec Fibre Channel or FICON ports. This high performance platform can also be used at the edge of a large enterprise network or as an application engine for SAN extension or fabric-based encryption.

Fabric Management Software for the Next Generation Data Center

HP Data Center Fabric Manager (DCFM) Software is a server based network management application that enables end-to-end management of B-series Storage Area Network (SAN) fabrics. DCFM Enterprise manages and secures the flow of data across multiple fabrics. It provides a holistic view of up to 24 SAN Fabrics and 9,000 switch ports, whether local to the data center or geographically dispersed. DCFM Professional enables the centralized management of up to 1,000 ports in a single fabric and contains a subset of the DCFM Enterprise features.

New Fabric OS Features

Virtual Fabrics: Enables partitioning of a physical SAN into logical fabrics and isolation by application, business group, customer, or traffic type.

B-SERIES SAN MANAGEMENT SOFTWARE

B-Series SAN switches are available in Base or Power Pack models.

Base Model Features:

Enhanced Group Management: Automates manual, repetitive and error-prone tasks and drives device configuration consistency across the fabric to minimize risk, and aid in rapid problem resolution.

Power Pack+ Model Features:

Advanced Performance Monitoring: Provides resource utilization analysis to optimize SAN performance.

Fabric Watch: Proactively monitors the health and performance of switches and the SAN fabric.

ISL Trunking: Groups up to 8 E-Ports to provide up to 64 Gbit/sec bandwidth in a single logical pipe.

Extended Fabrics: Extends SANs to provide "native" Fibre Channel distances up to 500 km.

Adaptive Networking: Enables policy-driven services to move and protect data in virtualized environments.

Optional Software Solutions:

Integrated Routing: Connects devices in separate fabrics without the need for a special-purpose router.

Inter-Chassis Links (ICLs): Enables ICL ports that deliver up to 512 Gbit/sec of bandwidth to connect two DC SAN Backbone Directors or DC04 SAN Directors.

FICON/CUP: Enables mixed mainframe and open system SAN environments with in-band management.

FCIP SAN Extension: Accelerates offsite replication, backup, and restore over long-distance IP connections.

FOR MORE INFORMATION

For more information, contact the HP Sales Engagement Office at Brocade: HP-Sales@brocade.com, the HP SE Team at Brocade: HP-SE@brocade.com or the nearest contact listed below.

WORLDWIDE

Paul Brodie - Corporate Account Director HP
pbrodie@brocade.com 408-333-5683

Gabe Breeman - Global Sales Executive HP
gbreeman@brocade.com 303-506-3136

Linda Bruno, OEM Marketing Program Manager
lbruno@brocade.com 408-333-6189

Itr Clarke, OEM Marketing Manager
iclarke@brocade.com 408-333-5677

AMERICAS

Gary Benton, HP Sales Manager
gbenton@brocade.com 813-920-9819

Sandi Rygwalski, HP SPO East, Territory Rep – NE
srygwals@brocade.com 508-316-0416

Paul Winbauer, HP SPO West, Territory Rep – Canada
pwinbaue@brocade.com 720-981-5857

Joe Plasky, Territory Rep – East & Federal
jplasky@brocade.com 561-208-8277

Grant Irland, Territory Rep – West
griand@brocade.com 303-443-3878

Marcelo Vanin, Territory Manager – LATAM
mvanin@brocade.com 305-858-3606

Emilio Tamaz Medina, Territory Rep – Mexico
etamaz@brocade.com +52 55 9171 1847

Mauricio Leon, Territory Manager – SSA/CACE
mleon@brocade.com +52 1 55 1320 9453

EMEA

Thomas Gabriel, Sales Manager
tgabriel@brocade.com +43 676 844 013 100

Vladimir Bajic/HP – Alliance Manager for Brocade
vladimir.bajic@hp.com +33 672 991 823

Marcus Friedl - Territory Rep, GY, AT, CH, Benelux
mfriedl@brocade.com +49 0 151 150 49123

Lee Larter – SE, UK&Ireland, Nordics, SA
llarter@brocade.com +44 776 607 2882

Eric Emelien – Territory Rep, France, Southern Europe
eemelien@brocade.com +33 607 102 357

Jean-Michel Langlet – SE, France, Southern Europe
janglet@brocade.com +33 678 378 835

Jan Hendriks – SE, Germany, Central Europe
jhendrik@brocade.com +49 151 150 491 64

ASIA PACIFIC JAPAN

Shyam Gopal, Sales Manager
sgopal@brocade.com +91 124 4549111

Brendan O'Reilly, Territory Rep – ANZ
boreilly@brocade.com +61 418 376 549

Yoshito Sugiyama, Territory Rep – Japan
ysugiyam@brocade.com +81 3 6203-9022

Ailan Tan, Territory Rep – SEA
atan@brocade.com +65-6317 2410

Kwon Won Sang, Territory Rep – Korea
kwonsang@brocade.com +82 2 7691781

Sanjay Pandita, Territory Rep – India
panditas@brocade.com +91 124 4549115

Frank Zhao, Territory Rep – China
fzhao@brocade.com +8610 8529 9131