

Specification Sheet

CONNECTRIX ED-DCX6 DIRECTORS

Delivering up to 32Gb/s Fibre Channel performance

Scalability, high availability and a rich feature set for your Storage Area Network (SAN)

Connectrix ED-DCX6 Directors enhance operational stability, maximize performance and increase business agility. The ED-DCX6 directors are delivered with the Enterprise software package which includes Fabric Vision, ISL Trunking, for port aggregation, Extended Fabric, for distance extension, and FICON Control Unit Port (CUP) for mainframe environments.

Fabric Vision provides monitoring, management, and diagnostic capabilities which enable administrators to avoid problems before they impact operations. It also provides diagnostic tools and Flow Vision, which enables administrators to monitor and analyze specific application flows. Other Fabric Vision capabilities include:

- IO Insight: Proactively monitors storage device IO performance
- Flow Vision: Enables administrators to identify, monitor, and analyze specific application flows in order to simplify troubleshooting, maximize performance, avoid congestion, and optimize resources
- Monitoring and Alerting Policy Suite (MAPS): Leverages pre-built, policy-based templates to simplify fabric-wide threshold configuration, monitoring, and alerting
- Fabric Performance Impact (FPI) Monitoring: Leverages predefined MAPS policies to automatically detect and alert administrators to different latency severity levels to identify slow drain devices that could impact network performance

SANnav Management Portal and SANnav Global View

SANnav Management Portal and SANnav Global View empower IT administrators to be more efficient and productive by providing comprehensive visibility into the SAN environment. These tools transform information about SAN behavior and performance into actionable insights, allowing administrators to quickly identify, isolate and correct problems before they impact the business. In addition, SANnav Management Portal and SANnav Global View accelerate administrative tasks by simplifying workflows and automating redundant steps, making it easier for organizations to realize their goal of an autonomous SAN.

Connectrix ED-DCX6 Chassis Models

There are two Connectrix ED-DCX6 models to address all your storage networking requirements. To accommodate the requirements of today's data centers, the ED-DCX6 director models provide two airflow options for each chassis. Having two airflow options extends the flexibility for hot/cold aisle network designs. Non-port-side intake to port-side exhaust or port-side intake to non-port-side exhaust options are available.

- ED-DCX6-8B: The 14U chassis supports eight vertical switching blades that accommodate the 48-port Fibre Channel blade, the 64-port blade and the FCiP switching blade for distance extension. In addition, the director supports up to 32 128 Gb/s Inter-chassis Link (ICL) ports for high-speed connections to other DCX6 Directors.
- ED-DCX6-4B: The 8U chassis supports four horizontal switching blades that accommodate the 48-port Fibre Channel blade, the 64-port blade and the FCiP switching blade for distance extension. In addition, the director supports up to 16 additional 128 Gb/s Inter-chassis Link (ICL) ports for high-speed connections to other DCX6 Directors.

| Chassis Includes redundant active/stantby control processor modules, a non-blocking shared memory passive backplane, redundant active/stantby control processor modules, a non-blocking shared memory passive backplane, redundant active/stantby cores withing blades. Pediated with WNN cards, and support for eight vertical syntching blades. Proceedinal WNN cards, and support for sight vertical syntching blades. The chassis supports up to bury power support for four host processors. The processor is a standard with the processor of the processor | System Architecture | ED-DCX6-8B | ED-DCX6-4B |
|--|--------------------------------|--|---|
| OSFP ports, a 48-port 32Cb/s blade for SAN Extension. The FCIP blade has 16 32Cb/s FC ports and 16 1/10GigE and two 40GigE ports Performance Autosensing 4/8/16/32 ports speeds (depending on SFPs used). 10 Gb/s port speeds with dedicated SFPs. Full duplex. 20 Tbis of aggregate bandwidth including 4 Tb/s of ICL bandwidth 21 Tbis of aggregate bandwidth including 4 Tb/s of ICL bandwidth 1.5 Tb/s bandwidth per slot Aggregate ICL bandwidth 1.5 Tb/s bandwidth sould speed be should be speed by the speed of ICL bandwidth including 2 Tb/s of ICL bandwidth Aggregate ICL bandwidth 4 Tb/s of ICL bandwidth speed by the s | Chassis | modules, a non-blocking shared memory passive backplane, redundant active/active core switching blades, redundant WWN cards, and support for eight vertical switching blades. The chassis supports up to four power supplies and three fan tray assemblies. Each fan assembly contains two fans for a total of six fans. There are two airflow options available: non-port-side intake to port-side exhaust or port-side | modules, a non-blocking shared memory passive backplane, redundant active/active core switching blades, redundant WWN cards, and support for four horizontal switching blades. The chassis supports up to two power supplies and two fan tray assemblies. Each fan assembly contains two fans for a total of four fans. There are two airflow options available: non-port-side intake to port-side exhaust or port-side |
| SFPs used), 10 Gb/s port speeds with dedicated SFPs. Full duplex. Chassis bandwidth 20 Tobs of aggregate bandwidth including 4 Tols of ICL bandwidth 1.5 Tobs bandwidth 1.5 Tobs bandwidth per slot Aggregate ICL bandwidth 1.5 Tobs bandwidth per slot 1.5 Tobs bandwidth per | Fibre Channel ports | QSFP ports, a 48-port 32Gb/s blade and an FCiP blade for SAN Extension. The FCiP blade has 16 32Gb/s FC ports and 16 1/10GigE and two 40GigE | QSFP ports, a 48-port 32Gb/s blade and an FCiP blade for SAN Extension. The FCiP blade has 16 32Gb/s FC ports and 16 1/10GigE and two 40GigE |
| CL bandwidth 1.5 Tb/s bandwidth per slot 2 Tb/s of ICL bandwidth 32x128 Gb/s 3 Tb/s of ICL bandwidth 32x | Performance | SFPs used). 10 Gb/s port speeds with dedicated | SFPs used). 10 Gb/s port speeds with dedicated |
| Stot bandwidth 1.5 Tb/s bandwidth per slot 1.5 Tb/s bandwidth per slot Aggregate ICL bandwidth 4 Tb/s of ICL bandwidth, 32x128 Gb/s 2 Tb/s of ICL bandwidth, 32x12 | Chassis bandwidth | | |
| Aggregate ICL bandwidth | Slot bandwidth | | |
| Blade-to-blade: 2,7 us Blade-to-blade: 2,7 us Blade-to-blade: 2,7 us 2112-byte payload 2152-byte paylo | Aggregate ICL bandwidth | <u> </u> | · |
| Frame buffers 15,000 per switching ASIC 15,000 per switching ASIC Classes Class 2, Class 3, Class F (Inter-switch frames) DH, CHAP between switches and end devices, FCAP switch authentication, FIPS 140-2 L2 compliant, HTTPS, IPSec, IP filtering, LDAP with IPv6, Open LDAP, Port Blaiding, RADIUS, user-defined Role-based Access Control (RBAC), Service Copy (SCP), Secure RPC, SFTP, SSH v@, SSL, Switch Binding, TACACS+, Trusted Switch Port types 48-port and 64-port switching blades: F PORT, E PO | Fabric latency (Including FEC) | • | |
| Class 2, Class 3, Class F (Inter-switch frames) Security DH. CHAP between switches and end devices, FCAP switch authentication, FIPS 140-2 L2 compliant, HTTPS, IPSec, IP filtering, LDAP with IPv6, Open LDAP, Port Binding, RADIUS, user-defined Role-based Access Control (RBAC), Service Copy (SCP), Secure RPC, SFTP, SSH v@, SSL, Switch Binding, TACACS+, Trusted Switch | Maximum frame size | 2112-byte payload | 2112-byte payload |
| DH_CHAP between switches and end devices, FCAP switch authentication, FIPS 140-2 L2 compliant, HTTPS, IPSec, IP filtering, LDAP with IPv6, Open LDAP, Port Binding, RADIUS, user-defined Role-based Access Control (RBAC), Service Copy (SCP), Secure RPC, SFTP, SSH v@, SSL, Switch Binding, TACACS+, Trusted Switch Copy (SCP), Secure RPC, SFTP, SSH v@, SSL, Switch Binding, TACACS+, Trusted Switch Binding, TaCaCaCP, Switch Binding, TaCaCaCP, Switch Binding, TaCaCaCP | Frame buffers | 15,000 per switching ASIC | 15,000 per switching ASIC |
| FCAP switch authentication, FIPS 140-2 L2 compliant, HTTPS, IPSec, IP filtering, LDAP with IPV6, Open LDAP, Port Binding, RADIUS, user-defined Role-based Access Control (RBAC), Service Copy (SCP), Secure RPC, SFTP, SSH v@, SSL, Switch Binding, TACACS+, Trusted Switch Port types 48-port and 64-port switching blades: F_PORT, E_PORT, E_PORT, EX_PORT on FC ports and VE_PORT on GbE ports FCIP Extension blade: F_PORT, E_PORT, EX_PORT on FC ports and VE_PORT on GbE ports Media types 48-port blade: Hot-pluggable Fibre Channel SFP28 at 32Gb/s SWL, LWL, st 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Media types 64-port blade: Hot-pluggable OSFP connector; 4×32 Gb/s SWL and 4×16 Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Media types FCIP blade FCIP Extension blade: Hot-pluggable Fibre Channel SFP28 at 32Gb/s shortwave length (SWL) and only awavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Media types FCIP blade FCIP Extension blade: Hot-pluggable Fibre Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. For Ethernet at 1GbE copper 1GbE 1000BASE-SVL/X/CWDM; at 10Gigle SR/LR SFP+; OSFP at 40GbE SR4/LR4/FR4 USB One USB per control processor for firmware downloads, support save, and configuration FCAP switch authentication, FIPS 140-2 L2 ceffering the filtering, LDAP with IPV6, Open LDAP, Port Binding, RADIUS, user-defined follobes and self-port Binding, RADIUS, user-defined follobes and self-port Binding, RADIUS, user-defined follobes and self-port Binding, RADIUS, user-defined follopes SSL, SWL, SSL, Switch Binding, RADIUS, user-defined follopes SSL, | Classes | Class 2, Class 3, Class F (Inter-switch frames) | Class 2, Class 3, Class F (Inter-switch frames) |
| E_PORT, EX_PORT, M_PORT SIM, D_PORT FCIP Extension blade: F_PORT, E_PORT, E_PORT, EX_PORT on FC ports and VE_PORT on GbE ports Media types 48-port blade: Hot-pluggable Fibre Channel SFP28 at 32Gb/s shortwave length (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Hot-pluggable Fibre Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Hot-pluggable Fibre Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Hot-pluggable QSFP connector; 4*32 Gb/s SWL and 4*16 Gb/s SWL, LWD, Extra LWL; at 10Gb/s SWL/LWL SFP. Hot-pluggable QSFP connector; 4*32 Gb/s SWL and 4*16 Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Brocade FC32-64 QSFPs support only 4/8/16/32 Gb/s (no 10 Gb/s Fibre Channel); 10GbE, 25GbE, or 40GbE FC0E QSFP Media types FCIP blade FCIP Extension blade: Hot-pluggable QSFP connector; 4*32 Gb/s SWL and 4*16 Gb/s SWL, LWD, Extra LWL; at 10Gb/s SWL/LWL SFP. FCIP Extension blade: Hot-pluggable QSFP connector; 4*32 Gb/s SWL and 4*16 Gb/s SWL, MPO 1*12 ribbon cable connector (66 m 0 M3, 100m 0 M4); 4*32 Gb/s 2 km QSFP (fixed 4*32 Gb/s speed and SMF LC); Brocade FC32-64 QSFPs support only 4/8/16/32 Gb/s (no 10 Gb/s Fibre Channel); 10GbE, 25GbE, or 40GbE FC0E QSFP Media types FCIP blade FCIP Extension blade: Hot-pluggable Fibre Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. For Ethernet at 1GbE copper 1GbE 1000BASE-SX/LX/CWDM; at 10GigE SR/LR SFP+; QSFP at 40GbE SR4/LR4/ER4 USB One USB per control processor for firmware downloads, support save, and configuration One USB per control processor of firmware downloads, support save, and configuration | Security | FCAP switch authentication, FIPS 140-2 L2 compliant, HTTPS, IPSec, IP filtering, LDAP with IPv6, Open LDAP, Port Binding, RADIUS, user-defined Role-based Access Control (RBAC), Service Copy (SCP), Secure RPC, SFTP, SSH v@, SSL, | FCAP switch authentication, FIPS 140-2 L2 compliant, HTTPS, IPSec, IP filtering, LDAP with IPv6, Open LDAP, Port Binding, RADIUS, user-defined Role-based Access Control (RBAC), Service Copy (SCP), Secure RPC, SFTP, SSH v@, SSL, |
| EX_PORT on FC ports and VE_PORT on GbE ports Media types 48-port blade: Hot-pluggable Fibre Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Media types 64-port blade: Hot-pluggable QSFP connector; 4×32 Gb/s SWL and 4×16 Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Media types 64-port blade: Hot-pluggable QSFP connector; 4×32 Gb/s SWL and 4×16 Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Hot-pluggable Fibre Channel SFP28 at 32Gb/s SWL (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Hot-pluggable Fibre Channel SFP28 at 32Gb/s SWL and 4×16 Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Hot-pluggable Fibre Channel SFP28 at 32Gb/s SWL and 4×16 Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL and 4×16 Gb/s SWL, MPO 1×12 ribbon cable connector (66 m OM3, 100m OM4); 4×32 Gb/s 2 km QSFP (fixed 4×32 Gb/s Speed and SMF LC); Brocade FC32-64 QSFPs support only 4/8/16/32 Gb/s (no 10 Gb/s Fibre Channel); 10GbE, 25GbE, or 40GbE FC0E QSFP Media types FCiP blade FCiP Extension blade: Hot-pluggable Fibre Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL/LWL EXFP. For Ethernet at 1GbE copper 1GbE 1000BASE-SX/LX/CWDM; at 10GigE SR/LR SFP+; QSFP at 40GbE SR4/LR4/ER4 USB One USB per control processor for firmware downloads, support save, and configuration FCIP Extension blade: Hot-pluggable Fibre Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL/LWL SFP. For Ethernet at 1GbE copper 1GbE 1000BASE-SX/LX/CWDM; at 10GigE SR/LR SFP+; QSFP at 40GbE SR4/LR4/ER4 USB One USB per control processor for firmware downloads, support save, and configuration | Port types | | |
| shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. Media types 64-port blade: Hot-pluggable QSFP connector; 4×32 Gb/s SWL and 4×16 Gb/s SWL, MPO 1×12 ribbon cable connector (66 m OM3, 100m OM4); 4×32 Gb/s 2 km QSFP (fixed 4×32 Gb/s speed and SMF LC); Brocade FC32-64 QSFPs support only 4/8/16/32 Gb/s (no 10 Gb/s Fibre Channel); 10GbE, 25GbE, or 40GbE FCoE QSFP Media types FCiP blade FCiP Extension blade: Hot-pluggable Fibre Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. For Ethernet at 16bE copper 1GbE 1000BASE-SX/LX/CWDM; at 10GigE SR/LR SFP+; QSFP at 40GbE SR4/LR4/ER4 USB One USB per control processor for firmware downloads, support save, and configuration shortwave length (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL, and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. For Ethernet at 16bE copper 1GbE 1000BASE-SX/LX/CWDM; at 10GigE SR/LR SFP+; QSFP at 40GbE SR4/LR4/ER4 USB One USB per control processor for firmware downloads, support save, and configuration | | | |
| and 4×16 Gb/s SWL, MPO 1×12 ribbon cable connector (66 m OM3, 100m OM4); 4×32 Gb/s 2 km QSFP (fixed 4×32 Gb/s speed and SMF LC); Brocade FC32-64 QSFPs support only 4/8/16/32 Gb/s (no 10 Gb/s Fibre Channel); 10GbE, 25GbE, or 40GbE FCoE QSFP Media types FCiP blade FCiP Extension blade: Hot-pluggable Fibre Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. For Ethernet at 1GbE copper 1GbE 1000BASE-SX/LX/CWDM; at 10GigE SR/LR SFP+; QSFP at 40GbE SR4/LR4/ER4 USB One USB per control processor for firmware downloads, support save, and configuration and 4×16 Gb/s SWL, MPO 1×12 ribbon cable connector (66 m OM3, 100m OM4); 4×32 Gb/s 2 km QSFP (fixed 4×32 Gb/s speed and SMF LC); km QSFP (fi | Media types 48-port blade: | shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s | shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s |
| Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. For Ethernet at 1GbE copper 1GbE 1000BASE- SX/LX/CWDM; at 10GigE SR/LR SFP+; QSFP at 40GbE SR4/LR4/ER4 USB Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. For Ethernet at 1GbE copper 1GbE 1000BASE- SX/LX/CWDM; at 10GigE SR/LR SFP+; QSFP at 40GbE SR4/LR4/ER4 One USB per control processor for firmware downloads, support save, and configuration | Media types 64-port blade: | and 4×16 Gb/s SWL, MPO 1×12 ribbon cable connector (66 m OM3, 100m OM4); 4×32 Gb/s 2 km QSFP (fixed 4×32 Gb/s speed and SMF LC); Brocade FC32-64 QSFPs support only 4/8/16/32 Gb/s (no 10 Gb/s Fibre Channel); 10GbE, 25GbE, | and 4×16 Gb/s SWL, MPO 1×12 ribbon cable connector (66 m OM3, 100m OM4); 4×32 Gb/s 2 km QSFP (fixed 4×32 Gb/s speed and SMF LC); Brocade FC32-64 QSFPs support only 4/8/16/32 Gb/s (no 10 Gb/s Fibre Channel); 10GbE, 25GbE, |
| downloads, support save, and configuration downloads, support save, and configuration | Media types FCiP blade | Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. For Ethernet at 1GbE copper 1GbE 1000BASE-SX/LX/CWDM; at 10GigE SR/LR SFP+; QSFP at | Channel SFP28 at 32Gb/s shortwave length (SWL) and long wavelength (LWL); at 16Gb/s SWL, LWL, Extra LWL; at 10Gb/s SWL/LWL SFP. For Ethernet at 1GbE copper 1GbE 1000BASE-SX/LX/CWDM; at 10GigE SR/LR SFP+; QSFP at |
| | USB | downloads, support save, and configuration | downloads, support save, and configuration |

| Fabric services | Adaptive Networking (Traffic Isolation, QoS) BB credit recovery; Advanced Zoning (default zoning, port/WWN zoning, peer zoning, target-driven zoning, broadcast zoning); Dynamic Path Selection (DPS); Extended Fabrics; FDMI; Flow Vision; Frame Redirection; FSPF; IPFC; ISL Trunking; Management Server; Monitoring and Alert Policy Suite (MAPS); N_Port Trunking; NPIV; NTP v3; Port Fencing; Registered State Change Notification (RSCN); Reliable Commit Service (RCS); Simple Name Server | Adaptive Networking (Traffic Isolation, QoS) BB credit recovery; Advanced Zoning (default zoning, port/WWN zoning, peer zoning, target-driven zoning, broadcast zoning); Dynamic Path Selection (DPS); Extended Fabrics; FDMI; Flow Vision; Frame Redirection; FSPF; IPFC; ISL Trunking; Management Server; Monitoring and Alert Policy Suite (MAPS); N_Port Trunking; NPIV; NTP v3; Port Fencing; Registered State Change Notification (RSCN); Reliable Commit Service (RCS); Simple Name Server |
|--------------------------|---|---|
| Optional license | The Integrated Routing license is an optional feature. This license allows you to enable Fibre Channel routing between connected switches. | The Integrated Routing license is an optional feature. This license allows you to enable Fibre Channel routing between connected switches. |
| Distance extension | Supports DWDM and CWDM devices; Fibre Channel in-flight compression (LZO) and encryption (AES-GCM-256); BB credit recovery; FCiP, IP Extension, Adaptive Rate Limiting (ARL), data compression, Fast Write, read/write Tape Pipelining, QoS. | Supports DWDM and CWDM devices; Fibre Channel in-flight compression (LZO) and encryption (AES-GCM-256); BB credit recovery; FCiP, IP Extension, Adaptive Rate Limiting (ARL), data compression, Fast Write, read/write Tape Pipelining, QoS. |
| Hot swappable components | Power supplies, fans, WWN cards, processors, core switching, port blades and optics | Power supplies, fans, WWN cards, processors, core switching, port blades and optics |
| Installation options | Customer-supplied EIA compliant 19" rack or Connectrix cabinet | Customer-supplied EIA compliant 19" rack or Connectrix cabinet |

| Connectivity Management | ED-DCX6-8B | ED-DCX6-4B |
|--------------------------------------|--|--|
| Interface | SANnav Management Portal and SANnav Global View, Web Tools, Command Line Interface (CLI) | SANnav Management Portal and SANnav Global View, Web Tools, Command Line Interface (CLI) |
| Cloud-based monitoring and analytics | CloudIQ | CloudIQ |
| Management access | 10/100/1000 Ether (RJ-45) per control processor, in band over Fibre Channel serial port (RJ-45) and one USB per control processor module; DCCP/DHCPv6; call home, and SRS | 10/100/1000 Ether (RJ-45) per control processor, in band over Fibre Channel serial port (RJ-45) and one USB per control processor module; DCCP/DHCPv6; call home, and SRS |
| Firmware upgrades | Non-disruptive firmware downloads and activation | Non-disruptive firmware downloads and activation |
| Compatibility | SMI-S compliant; RESTful API; trial license for add- on capabilities | SMI-S compliant; RESTful API; trial license for add-on capabilities |
| Diagnostics | IO Insight for IO Monitoring; ClearLink optics and cable diagnostics, including electrical/optical loopback, link traffic/latency/distance; built-in flow generator; POST and embedded online/offline diagnostics, including environmental monitoring, FC ping and Pathinfo (FC traceroute), flow monitoring, frame viewer, nondisruptive daemon restart, optics health monitoring, power monitoring, RAStrace logging, and rolling reboot detection (RRD) | IO Insight for IO Monitoring; ClearLink optics and cable diagnostics, including electrical/optical loopback, link traffic/latency/distance; built-in flow generator; POST and embedded online/offline diagnostics, including environmental monitoring, FC ping and Pathinfo (FC traceroute), flow monitoring, frame viewer, nondisruptive daemon restart, optics health monitoring, power monitoring, RAStrace logging, and rolling reboot detection (RRD) |

| Physical Specifications | ED-DCX6-8B | ED-DCX6-4B |
|----------------------------|--|---|
| Height | 61.23 cm (24.11 inches), 14U rack-mountable chassis | 34.45 cm (13.56 inches), 8U rack-mountable chassis |
| Width | 43.74 cm (17.23 inches) | 43.74 cm (17.23 inches) |
| Depth | 61.04 cm (24.04 inches) | 61.04 cm (24.04 inches) |
| Weight | 35.61 kg (78.5 pounds) for chassis only; 145.8 kg (321.5 pounds) for 384-port configuration, fully populated | 24.5 kg (54 pounds) for chassis only; 68.95 kg (152 pounds) for 192-port configuration, fully populated |

| Environment | ED-DCX6-8B | ED-DCX6-4B |
|------------------|--|--|
| Temperature | Operating: 0°C to 40°C (32°F to 104°F) Non-operating: -25°C to 70°C (-13°F to 158°F) | Operating: 0°C to 40°C (32°F to 104°F) Non-operating: -25°C to 70°C (-13°F to 158°F) |
| Humidity | Operating: 5% to 93% RH non-condensing at 40°C (104°F) with a maximum gradient of 10% per hour Non-operating: 10% to 93% RH non-condensing at 70°C (158°F) | Operating: 5% to 93% RH non-condensing at 40°C (104°F) with a maximum gradient of 10% per hour Non-operating: 10% to 93% RH non-condensing at 70°C (158°F) |
| Altitude | Up to 3000 meters (9,842 feet) | Up to 3000 meters (9,842 feet) |
| Shock | Operating: 10 g, 11ms, half sine wave Non-operating: 20g, 11ms, half sine wave | Operating: 10 g, 11ms, half sine wave Non-operating: 20g, 11ms, half sine wave |
| Vibration | Operating: 5 Hz to 10 Hz @ +5 db/Oct; 10 Hz to 200 Hz @ 0.0005 Grms; 200 Hz to 500 Hz @ -5 db/Oct, scale 0.05 Grms | Operating: 5 Hz to 10 Hz @ +5 db/Oct; 10 Hz to 200 Hz @ 0.0005 Grms; 200 Hz to 500 Hz @ -5 db/Oct, scale 0.05 Grms |
| Heat dissipation | 512-port configuration: Typical: 10,010 BTU/hr; Max: 18,362 BTU/hr | 512-port configuration: Typical: 10,010 BTU/hr; Max: 18,362 BTU/hr |
| | Power consumed: Typical: 2933W; Max: 5380W Note: Input power is at 200V AC with full PSU redundancy. | Power consumed: Typical: 2933W; Max: 5380W Note: Input power is at 200V AC with full PSU redundancy. |

| Power Requirements | ED-DCX6-8B | ED-DCX6-4B |
|-----------------------|--|--|
| Supported power range | Standard AC Power Supplies Input Voltage Standard AC input: Range: 90V AC to 264V AC auto-volt Nominal: 100V AC to 240V AC Power 85V AC to 132V AC: 1450W 180V AC to 264V AC: 2870W 80 PLUS Platinum certified | Standard AC Power Supplies Input Voltage Standard AC input: Range: 90V AC to 264V AC auto-volt Nominal: 100V AC to 240V AC Power 85V AC to 132V AC: 1450W 180V AC to 264V AC: 2870W 80 PLUS Platinum certified |
| In rush current | 35 AMPS maximum peak | 35 AMPS maximum peak |
| Frequency | 50 Hz to 60 Hz (Nominal 50 Hz to 60 Hz) | 50 Hz to 60 Hz (Nominal 50 Hz to 60 Hz) |

Regulatory Requirements for ED-DCX6-8B and ED-DCX6-4B

| Country | Safety | EMI/EMC |
|-----------------------|------------------------------|--------------------------------------|
| United States | Bi-Nat UL/CSA 60950-1 | FCC Part 15, Subpart B |
| Canada | Bi-Nat UL/CSA 60950-1 | ICES-3 (A) / NMB-3(A) |
| Japan | | CISPR22 and JEIDA (Harmonics) |
| European Union | EN60950-1 or latest | EN55022 and EN55024 |
| Australia/New Zealand | EN 60950-1 or IEC 60950-1 | EN55022 or CISPR22 or AS/NZS CISPR22 |
| Russian Federation | IEC60950-1 or latest | KN22 and KN24 |
| Korea | | |
| China | Not required on blade system | Not required on blade system |
| Taiwan | IEC60950-1 or latest | EN55022 Class A |

Agency Certifications for ED-DCX6-8B and ED-DCX6-4B

| Country | | |
|-----------------------|------------------------------|------------------------------|
| United States | cCSAus | FCC Class A and Statement |
| Canada | cCSAus | ICES-3/ NMB-3 |
| Japan | | VCCI-A |
| European Union | TUV-GS, CE | CE marking |
| Australia/New Zealand | | RCM |
| Argentina | "S" mark | |
| Russia | EAC Mark | EAC Mark |
| Korea | | KCC Mark Class A |
| China (PS only) | Not required on blade system | Not required on blade system |
| Taiwan (PS only) | BSMI mark | BSMI mark |
| Ukraine | UKSEPRO | UKSEPRO |
| Serbia | Kvalitet | Kvalitet |
| Mexico | NYCE NOM | |
| Vietnam | | ICTQC |



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