



Highlights

- Purpose built—designed from the ground up for data center architectures and demanding software application data flows
- Simplified deployment—increase operational efficiency with industry-standard CLI and automated management tools
- Fully featured—includes layer 3 routing functionality with no additional licensing required
- Highly flexible—utilizes Brocade IronStack technology to interconnect up to eight switches into a single logical chassis
- Superior scalability—supports higher numbers of routes, addresses and VLANs compared to products in class



IBM Ethernet Switch B48Y

Provides new levels of performance, flexibility and manageability for enterprise data centers

The IBM Ethernet Switch B48Y provides new levels of performance, flexibility and manageability for today's growing enterprise data centers. Purpose built for wire-speed, nonblocking performance with a full feature set, this switch is available in a 48-port 1 GbE model with optional four-port 10 GbE uplinks in a compact 1U form factor. The high-performance and reliability features make the switch ideal for top-of-rack server connectivity handling demanding business applications and iSCSI storage connectivity.

With support for Brocade IronStack, organizations can horizontally stack a row of switches into a single logical switch, simplifying management. The base software comes with full Layer 2 and Layer 3 capabilities permitting the most flexible deployment options and enabling standardized deployments to extend even outside the data center.

This switch utilizes an industry-standard CLI, which requires minimal training and affords the ability to reuse scripts, allowing for increased operational efficiencies. Supporting a wide range of industry standards and protocols, the switch easily integrates into existing networking environments.

On the switch itself, optional dual-hot-swappable, load-sharing, redundant power supplies increase device availability. The modular design also has a removable fan assembly containing four redundant blowers. These features provide another level of availability for data center top-of-rack switches.

The switches also feature nonport (back) to port-side (front) airflow improving mounting flexibility in a server rack while adhering to the cooling guidelines of the data center.



IBM Ethernet Switch B48Y at a glance

Part number	0563 022
Ports	<ul style="list-style-type: none">• 48x 10/100/1000 MbE ports (RJ-45)• 1x interface module slot
Interface modules	<ul style="list-style-type: none">• 4-port 10 GbE module (SFP+)
Interface types	<ul style="list-style-type: none">• 10 Gbps Ethernet ports with SFP+ connector• 10/100/1000 Mbps Ethernet ports with RJ-45 connector
Management interfaces	<ul style="list-style-type: none">• One 10/100/1000 MbE RJ-45 out-of-band management port• One DB9 serial console port (straight through)
Transceivers	Choice of SFP+ transceivers with Optical Monitoring (OM) capabilities: <ul style="list-style-type: none">• 10GBASE-SR 850 nm SFP+ optic, 10 Gbps up to 300 m over multimode fiber, duplex LC connector• Direct-attach Copper (TwinAx) cables, 10 Gbps up to .5, 1, 3, or 7 m (no OM capabilities)
Power supplies	<ul style="list-style-type: none">• 1+1 210 W power supplies supported for +1 redundancy, hot-swappable, load sharing. Airflow is "Intake" type—Nonport (back) to port (front) side
Fans	<ul style="list-style-type: none">• 1x fan tray supported, hot swappable
Power cords	Power cords are not included and must be specified at time of order
Warranty	Three year on-site NBD

Performance

Packet forwarding	B48Y – 132 million packets per second
Data forwarding	B48Y – 176 Gbps

Scalability

Jumbo Frames	9,000 bytes
VLANs	4096
Link aggregation	8 links per group, 32 link groups per switch, supported across stack members
ACLs	4,000
ARP entries	64,000
MAC addresses	32,000
IPv4 routes	16,000
Power (ac)	B48Y – 112.0 W (power draw); 1.2 amps @ 100 V ac, 0.7 amps @ 200 V ac

Why IBM?

IBM System x® sellers can enable clients with a single point of contact for consultation, sourcing and service as they build out their network. IBM offers a choice of compelling offerings from leading Ethernet switch providers based on open standards. This enables our customers to evolve their network and management interfaces, not force a “rip-and-replace” strategy that can lead to costly vendor lock-in. IBM can also take advantage of the latest industry innovations in our offering portfolio leading to greater cost savings and performance for our clients.

For more information

To learn more about the IBM Ethernet Switch B48Y, contact your IBM marketing representative or IBM Business Partner, or visit:

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