

IBM Dual 24-port 1 GbE Management Switch available for IBM Elastic Storage System

Table of contents

1 Overview	4 Publications
1 Key requirements	6 Technical information
1 Planned availability date	6 Terms and conditions
1 Description	11 Prices
2 Product number	

Overview

IBM^(R) Ethernet Switch 8831-T48 dual 24-port 1 GbE for IBM Elastic Storage^(R) System provides an alternate network switch option to the available IBM 8831-S52 48-port 1 Gb plus 4-port 10 Gb Ethernet Switch. 8831-T48 switches deliver the following features:

- High performance with RJ-45 10/100/1000BASE-T ports and up to 56 Gbps switching capacity
- Optimized design with IEEE 802.1 layer 2/3 standard compliance
- Management options for the CLI through the console port or Telnet Web management, utilizing SNMP versions 1, 2c, and 3

Key requirements

Not applicable.

Planned availability date

August 26, 2022.

Availability within a country is subject to local legal requirements.

Description

IBM 8831-T48 is a 2U rack-mountable Ethernet switch with 48 GbE RJ-45 fixed ports. The front panel of the switch provides the following components:

- LEDs that display the status of the switch and the network
- A total of forty-eight 1000BASE-T Ethernet ports for 10/100/1000 Mbps connections
- Four SFP+ ports to attach SFP/SFP+ transceivers for 1 Gb Ethernet connections

The front panel of the switch provides the following components:

- 100 to 240 V AC, 50/60 Hz AC/DC: 90 V AC~300 V AC, 50/60 Hz nonreplaceable power supply
- Dying gasp

IBM offers cables for your convenience to help ensure that quality cables are used that can be supported by IBM.

Accessibility by people with disabilities

Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the [IBM Accessibility Conformance Reports](#) website.

Product number

Description	Machine type	Model	Feature
Dual 24 Port 1GbE Management Switch	8831	T48	
3m, Blue Cat5e Cable	8831	T48	1111
CAT5E Ethernet Cable, 3M GREEN	8831	T48	1115
3m, Yellow Cat5e Cable	8831	T48	1118
Rack Indicator- Not Factory Integrated	8831	T48	4650
Rack Indicator, Rack #1	8831	T48	4651
Rack Indicator, Rack #2	8831	T48	4652
Rack Indicator, Rack #3	8831	T48	4653
Rack Indicator, Rack #4	8831	T48	4654
Rack Indicator, Rack #5	8831	T48	4655
Rack Indicator, Rack #6	8831	T48	4656
Rack Indicator, Rack #7	8831	T48	4657
Rack Indicator, Rack #8	8831	T48	4658
Rack Indicator, Rack #9	8831	T48	4659
Rack Indicator, Rack #10	8831	T48	4660
Rack Indicator, Rack #11	8831	T48	4661
Rack Indicator, Rack #12	8831	T48	4662
Rack Indicator, Rack #13	8831	T48	4663
Rack Indicator, Rack #14	8831	T48	4664
Rack Indicator, Rack #15	8831	T48	4665
Rack Indicator, Rack #16	8831	T48	4666
Power Cord 4.3m (14-ft), Drawer to IBM PDU (250V/10A)	8831	T48	6458

Description	Machine type	Model	Feature
Power Cable - Drawer to IBM PDU, 200-240V/10A	8831	T48	6577
Power Cord 2.8m (9.2-ft), Drawer to IBM PDU, (250V/10A)	8831	T48	6665
Power Cord 2.7M (9-foot), Drawer to IBM PDU, 250V/10A	8831	T48	6671
Power Cord 2M (6.5-foot), Drawer to IBM PDU, 250V/10A	8831	T48	6672
5m (16.4-ft) Blue CAT5E Switch Cable	8831	T48	ECB3
Variable Length, Blue Cat5e Cable	8831	T48	ECCG
Variable Length, Green Cat5e Cable	8831	T48	ECCH
Variable Length, Yellow Cat5e Cable	8831	T48	ECCJ
5m (16.4-ft) Green CAT5E Switch Cable	8831	T48	ECCV
5m (16.4-ft) Yellow CAT5E Switch Cable	8831	T48	ECCW
Power Cable - Drawer to IBM PDU (250V/10A)	8831	T48	ELC5
PWR CBL DRWR TO IBM PDU, 4.3M, 250V/10A, IEC320/C13, IEC320/C20 (SOLUTIONS ONLY)	8831	T48	ELC9
Power Cord 2M (6.5-foot), Drawer to IBM PDU, 250V/10A for India	8831	T48	END0
Power Cord 2.7M (9-foot), Drawer to IBM PDU, 250V/10A for India	8831	T48	END1
Power Cord 4.3m (14-ft), Drawer to IBM PDU (250V/10A) for India	8831	T48	END2
Power Cable - Drawer to IBM PDU, 200-240V/10A for India	8831	T48	END3
Power Cord 2.8m (9.2-ft), Drawer to IBM PDU, (250V/10A) for India	8831	T48	END5

Description	Machine type	Model	Feature
Cable -Power Drawer to IBM PDU (250V/10A) for India	8831	T48	END7
PWR CBL, INDIA 2019 BIS, DRWR TO IBM PDU, 4.3M, 250V/10A, IEC320/C13, IEC320/C20, REPLACES #ELC9 (SOLUTIONS ONLY)	8831	T48	END9
S&H - No Charge	8831	T48	ESC0
S&H	8831	T48	ESC7
ESS Solution Specify	8831	T48	ESS0

Publications

No publications are shipped with the announced product.

[IBM Documentation](#) provides you with a single information center where you can access product documentation for IBM systems hardware, operating systems, and server software. Through a consistent framework, you can efficiently find information and personalize your access.

To access the IBM Publications Center Portal, go to the [IBM Publications Center](#) website. The IBM Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, which can currently be downloaded.

To access the IBM Publications Center Portal, go to the [IBM Publications Center](#) website.

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, which can currently be downloaded.

National language support

When available, translated product documentation can be found in the [IBM Support Portal](#).

Services

IBM Systems Lab Services

Systems Lab Services offers infrastructure services to help build hybrid cloud and enterprise IT solutions. From servers to storage systems and software, Systems Lab Services can help deploy the building blocks of a next-generation IT infrastructure to empower a client's business. Systems Lab Services consultants can perform infrastructure services for clients online or onsite, offering deep technical expertise, valuable tools, and successful methodologies. Systems Lab Services is designed to help clients solve business challenges, gain new skills, and apply best practices.

Systems Lab Services offers a wide range of infrastructure services for IBM Power^(R) servers, IBM Storage systems, IBM Z^(R), and IBM LinuxONE. Systems Lab Services has a global presence and can deploy experienced consultants online or onsite around the world.

For assistance, contact Systems Lab Services at ibmsls@us.ibm.com.

To learn more, see the [IBM Systems Lab Services](#) website.

IBM Consulting™

As transformation continues across every industry, businesses need a single partner to map their enterprise-wide business strategy and technology infrastructure. IBM Consulting is the business partner to help accelerate change across an organization. IBM specialists can help businesses succeed through finding collaborative ways of working that forge connections across people, technologies, and partner ecosystems. IBM Consulting brings together the business expertise and an ecosystem of technologies that help solve some of the biggest problems faced by organizations. With methods that get results faster, an integrated approach that is grounded in an open and flexible hybrid cloud architecture, and incorporating technology from IBM Research^(R) and IBM Watson^(R) AI, IBM Consulting enables businesses to lead change with confidence and deliver continuous improvement across a business and its bottom line.

For additional information, see the [IBM Consulting](#) website.

IBM Technology Support Services (TSS)

Get preventive maintenance, onsite and remote support, and gain actionable insights into critical business applications and IT systems. Speed developer innovation with support for over 240 open-source packages. Leverage powerful IBM analytics and AI-enabled tools to enable client teams to manage IT problems before they become emergencies.

TSS offers extensive IT maintenance and support services that cover more than one niche of a client's environment. TSS covers products from IBM and OEMs, including servers, storage, network, appliances, and software, to help clients ensure high availability across their data center and hybrid cloud environment.

For details on available services, see the [Technology support for hybrid cloud environments](#) website.

IBM Expert Labs

Expert Labs can help clients accelerate their projects and optimize value by leveraging their deep technical skills and knowledge. With more than 20 years of industry experience, these specialists know how to overcome the biggest challenges to deliver business results that can have an immediate impact.

Expert Labs' deep alignment with IBM product development allows for a strategic advantage as they are often the first in line to get access to new products, features, and early visibility into roadmaps. This connection with the development enables them to deliver First of a Kind implementations to address unique needs or expand a client's business with a flexible approach that works best for their organization.

For additional information, see the [IBM Expert Labs](#) website.

IBM Security^(R) Expert Labs

With extensive consultative expertise on IBM Security software solutions, Security Expert Labs helps clients and partners modernize the security of their applications, data, and workforce. With an extensive portfolio of consulting and learning services, Expert Labs provides project-based and premier support service subscriptions.

These services can help clients deploy and integrate IBM Security software, extend their team resources, and help guide and accelerate successful hybrid cloud solutions, including critical strategies such as zero trust. Remote and on-premises software deployment assistance is available for IBM Cloud Pak^(R) for Security, IBM Security QRadar^(R)/QRoC, IBM Security SOAR/Resilient^(R), IBM i2, IBM Security Verify, IBM Security Guardium^(R), and IBM Security MaaS360^(R).

For more information, contact Security Expert Labs at sel@us.ibm.com.

For additional information, see the [IBM Security Expert Labs](#) website.

IBM support

For installation and technical support information, see the [IBM Support Portal](#).

Additional support

IBM Client Engineering for Systems

Client Engineering for Systems is a framework for accelerating digital transformation. It helps you generate innovative ideas and equips you with the practices, technologies, and expertise to turn those ideas into business value in weeks. When you work with Client Engineering for Systems, you bring pain points into focus. You empower your team to take manageable risks, adopt leading technologies, speed up solution development, and measure the value of everything you do. Client Engineering for Systems has experts and services to address a broad array of use cases, including capabilities for business transformation, hybrid cloud, analytics and AI, infrastructure systems, security, and more. Contact Client Engineering at sysgarage@ibm.com.

Technical information

Specified operating environment

Physical specifications

Operating environment

- Temperature: 0° C to 50° C (32° F to 122° F) standard operating
- Relative humidity: Noncondensing, 10% - 90%
- Airflow: Power-to-port cooling only
- Electrical input: 50 - 60 Hz, 100 - 240 V AC auto-switching
- Max system power consumption: 40 W

Physical specifications

- Height: 8.8 cm (3.46 in.)
- Width: 44 cm (17.3 in.)
- Depth: 22 cm (8.65 in.)
- Weight: 5.76 kg (12.7 lb)

Planning information

Cable orders

No cables are required.

Security, auditability, and control

The client is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Terms and conditions

Volume orders

Contact your IBM representative.

Products - terms and conditions

Warranty period

Warranty and additional coverage options	Coverage summary¹
Warranty Period:	3 years (1 year of standard warranty plus 2 additional years of extended warranty services)
Service Level:	IBM CRU and On-Site, 9x5 Next Business Day
Service upgrade options	
Warranty Service Upgrade	IBM On-Site Repair, 24x7 Same Day options
Maintenance Services (Post-Warranty)	IBM On-Site Repair, Next Business Day and Same Day options
IBM Hardware Maintenance Services - committed maintenance ²	Yes

¹ See complete coverage details below.

² Not offered in the US.

Three years.

To obtain copies of the IBM Statement of Limited Warranty, contact your reseller or IBM. An IBM part or feature installed during the initial installation of an IBM machine is subject to the full warranty period specified by IBM. An IBM part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature are the same as those for the machine in which it is installed.

Extended Warranty Service

This product is provided with one year of standard warranty. For your convenience, IBM has provided two additional years of extended warranty services to make this offering. Consult with your advisors about the appropriate financial treatment for this offering.

Warranty service

If required, IBM provides repair or exchange service depending on the types of warranty service specified for the machine. IBM will attempt to resolve your problem over the telephone, or electronically through an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. If applicable to your product, parts considered Client Replaceable Units (CRUs) will be provided as part of the machine's standard warranty service.

Service levels are response-time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country-specific and location-specific information.

CRU Service

IBM provides replacement CRUs to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request. CRUs are designated as being either a Tier 1 (mandatory) or a Tier 2 (optional) CRU.

Tier 1 (mandatory) CRU

Installation of Tier 1 CRUs, as specified in this announcement, is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation.

Tier 2 (optional) CRU

You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge.

Based upon availability, CRUs will be shipped for next business day (NBD) delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU. You may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

The following parts have been designated as Tier 1 CRUs:

- Switch Asm
- Power Cable -- Types C13/C14 and C13/C20
- External Cables (e.g. Cat5e cables)

CRU and On-site Service

At IBM's discretion, you will receive specified CRU service, or IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well-lit, and suitable for the purpose.

Service level is:

- 9 hours per day, Monday through Friday, excluding holidays, next business day response. Calls must be received by 3:00 PM local time in order to qualify for next business day response.

Warranty service

IBM is now shipping machines with selected non-IBM parts that contain an IBM field replaceable unit (FRU) part number label. These parts are to be serviced during the IBM machine warranty period. IBM is covering the service on these selected non-IBM parts as an accommodation to their clients, and normal warranty service procedures for the IBM machine apply.

Warranty service upgrades

During the warranty period, warranty service upgrades provide an enhanced level of On-site Service for an additional charge. Service levels are response-time objectives and are not guaranteed. See the Warranty services section for additional details.

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts.

Maintenance service options

CRU and On-site Service

At IBM's discretion you will receive CRU service or IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well-lit, and suitable for the purpose. The following on-site response-time objectives are available as warranty service upgrades for your machine. Available offerings are:

- 24 hours per day, 7 days a week, same day response. Monday-Sunday 00:00-24:00, 365 days a year

Client Replaceable Units (CRUs) may be provided as part of the machine's standard warranty CRU Service except that you may install a CRU yourself or request IBM installation, at no additional charge, under the CRU and On-site Service level specified above. For additional information on the CRU Service, see the warranty information.

Maintenance services

If required, IBM provides repair or exchange service depending on the types of maintenance service specified for the machine. IBM will attempt to resolve your problem over the telephone or electronically, through an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. Service levels are response-time objectives and are not guaranteed. The specified level of maintenance service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country-specific and location-specific information. The following service selections are available as maintenance options for your machine type.

- IBM On-Site Repair, Next Business Day Response Target, Monday-Friday. Calls must be received by 3:00 PM local time in order to qualify for next business day response.
- IBM On-Site Repair, Same Day On-Site Response Target, Monday-Sunday 00:00-24:00, 365 days a year.

IBM Hardware Maintenance Services -- committed maintenance²

Organizations can lose as much as USD100 million per year to downtime related to information and communications technology. IBM Hardware Maintenance Services -- committed maintenance can deliver various guaranteed hardware service for IBM equipment from the moment you call for support worldwide (based on the countries in which IBM has a presence) and around the clock. Through clear response targets and standardized service-delivery metrics, we help you optimize your IT infrastructure and reduce the threat of hardware-related outages.

For more information, see the [Committed maintenance service levels for IBM hardware](#).

² Currently not available in the US

On-site Service

IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well-lit, and suitable for the purpose.

Client Replaceable Unit (CRU) Service

If your problem can be resolved with a CRU (for example, keyboard, mouse, speaker, memory, or hard disk drive), and depending upon the maintenance service

offerings in your geography, IBM will ship the replacement CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request.

Based upon availability, CRUs will be shipped for next business day delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM. When return is required, 1) return instructions and a container are shipped with the replacement CRU, and 2) you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

CRUs may be provided as part of the machine's standard maintenance service except that you may install a CRU yourself or request IBM installation, at no additional charge, under any of the On-site Service levels specified above.

CRU and Machine Exchange Service

At IBM's discretion you will receive CRU service or IBM will initiate shipment of a replacement machine to your location. You are responsible for its installation and verification of operation. You must pack the failed machine into the shipping container that contained the replacement machine and return the failed machine to IBM. Transportation charges, both ways, are paid by IBM. You may be charged for the replacement machine if IBM does not receive the failed machine within 15 days of your receipt of the replacement.

Non-IBM parts service

Under certain conditions, IBM provides services for selected non-IBM parts at no additional charge for machines that are covered under warranty service upgrades or maintenance services.

This service includes hardware problem determination (PD) on the non-IBM parts (for example, adapter cards, PCMCIA cards, disk drives, memory) installed within IBM machines and provides the labor to replace the failing parts at no additional charge.

If IBM has a Technical Service Agreement with the manufacturer of the failing part, or if the failing part is an accommodations part (a part with an IBM FRU label), IBM may also source and replace the failing part at no additional charge. For all other non-IBM parts, clients are responsible for sourcing the parts. Installation labor is provided at no additional charge, if the machine is covered under a warranty service upgrade or a maintenance service.

Usage plan machine

Yes

Average usage plan provisions apply

No

IBM hourly service rate classification

One

When a type of service involves the exchange of a machine part, the replacement may not be new, but will be in good working order.

General terms and conditions

Field-installable features

Yes

Model conversions

No

Machine installation

Client setup. Clients are responsible for installation according to the instructions IBM provides with the machine.

Graduated program license charges apply

No

Licensed Internal Code and Licensed Machine Code

There is no Licensed Internal Code or Licensed Machine Code.

Educational allowance

Not applicable

Prices

For all local charges, contact your local IBM representative or IBM Business Partner.

IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified clients to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all client segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or go to the [IBM Global Financing](#) website for more information.

IBM Global Financing offerings are provided through IBM Credit LLC in the United States and other IBM subsidiaries and divisions worldwide to qualified commercial and government clients. Rates are based on a client's credit rating, financing terms, offering type, equipment type and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

Financing solutions from IBM Global Financing can help you stretch your budget and affordably acquire the new product. But beyond the initial acquisition, our end-to-end approach to IT management can also help keep your technologies current, reduce costs, minimize risk, and preserve your ability to make flexible equipment decisions throughout the entire technology lifecycle.

Trademarks

IBM Consulting is a trademark of IBM Corporation in the United States, other countries, or both.

IBM, IBM Elastic Storage, Power, IBM Z, IBM Research, IBM Watson, IBM Security, IBM Cloud Pak, QRadar, Resilient, Guardium and MaaS360 are registered trademarks of IBM Corporation in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.

Terms of use

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this

announcement at any time without notice. This announcement is provided for your information only. Additional terms of use are located at

[Terms of use](#)

For the most current information regarding IBM products, consult your IBM representative or reseller, or go to the [IBM worldwide contacts page](#)

[IBM Japan](#)