

Distance between KVM switch and server



Article Overview

The distance between a KVM switch and a server depends on the type of KVM connection, ranging from 10 meters for standard consoles to over 150 meters with KVM extenders or IP-based solutions.

Standard KVM Connections

For traditional KVM switches using PS/2 or USB connections, the maximum reliable distance is typically 16–33 feet (5–10 meters) due to signal degradation over longer cables. This is suitable for small server racks or desktop setups where the KVM switch is physically close to the servers.

KVM over CAT6

When using CAT5 or CAT6 cabling, distances can be extended significantly. For example, a high-density KVM switch over CAT6 can reliably connect to servers up to 50 meters (about 164 feet) at 1920×1080 resolution. Some KVM extenders can push this even further, up to 150 meters (492 feet) using CATx cables, or even farther with fiber or IP-based connections.

KVM over IP

KVM over IP allows remote access over a network, effectively removing physical distance limitations. The KVM device connects to the server locally, and the keyboard, video, and mouse signals are transmitted over the network, enabling control from anywhere with network access. This is ideal for data centers or remot...

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Top 6 Considerations When Choosing a KVM Switch

CatX KVM switches offer longer connection distances over standard KVMs by using CatX user stations. And some

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Server spacing and location in Server rack

Hi, I am installing 3 Dell 1U and 1 Dell 2U servers in a DELL 42U rack. The IT person helping me stacked the

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Complete Guide To KVM Switching & Extension

KVM over IP extenders are preferred for applications where connectivity needs to be established across vast distances, where

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16 port KVM Switches with IP

IT manager can access and control up to 32 servers via this high density KVM switch. Unique and strong function

Apr 08, 2026

Understanding KVM Switch Connection Diagrams: A Complete Guide

Learn about the connection diagram for a KVM switch, which allows you to control multiple computers or servers with a single

Jun 03, 2026

What is a KVM Switch Used for and How Does it Work?

As a fellow Linux enthusiast, you've likely wondered about the purpose of those little boxes labeled "KVM switches"

May 31, 2026

KVM Switch Buying Guide

KVM switches can be used in home offices, network closets, server rooms, data centers, etc. Space-saving, convenient and

Jun 06, 2026

KVM Extenders | Frequently Asked Questions | Matrox Video

Learn about KVM extenders; how they work, where they are used, their benefits, the maximum distance that signals can be

Oct 14, 2025

KVM over IP Matrix System Implementation Guide

Keep distances between switches as short as possible The distances between the switches should be as short as possible;

Jun 22, 2026

How to Choose the Right KVM Switch for Your Small Server Room

If you have a small server room with anywhere from a handful up to 20 servers, chances are you need a KVM switch

Mar 08, 2026

KVM Switch Buying Guide | Eaton

KVM switches are the ideal solution for controlling multiple PCs and servers from a single keyboard, video

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KVM Switch vs Console Server

Computers are typically in close proximity to the KVM switch—on the same desktop or server rack, for example. IP KVM switches

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How to Set Up a KVM Switch Step by Step

In this blog, we will guide you step by step on how to set up a KVM switch. If you have multiple computers but only

Jan 12, 2026

Understanding KVM Switches

KVM matrix switches are often used alongside KVM extenders to connect machines and users over varying distances,

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What Are KVM Switches and When Should You Use One?

A KVM switch can make your multi-computer setup cost-effective and take less table space while also being neat and

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MT-VIKI Rack Mount KVM, 16 Port VGA KVM Console Over CAT6

Compare with normal kvm switch, this cat6 kvm switch allows to extend transmission distance up to 230ft/70m between your servers

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KVM switches

Extenders Data losses and latencies can occur, especially when large transmission distances between computers,

Sep 14, 2025

What is the maximum distance between the Rack LCD (AP5717G)

The maximum distance between the Rack LCD Console and the target device (a KVM switch or server) is 32.8 feet (10m).

Dec 20, 2025

KVM Switch Selection Guide

KVM Switches: What is best for you? KVM switches are used to connect users to their computers. There are many types of switches

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KVM Switches, Extenders & Matrix Systems | Black Box

A KVM Switch allows you to control multiple computers from a single workstation (one keyboard/monitor/mouse). A KVM Extender

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KVM Selection Guide

The final table provides detailed information on each Raritan product family, specifying the distances, cabling and the number of

May 21, 2026

KVM over IP: 7 Facts You Need to Know for Server Room Setup

In this article, we will explore what KVM over IP is, how it works, its benefits, selection guide, etc. Get this ultimate

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Best KVM Switches for 2026 (Dual Monitor, Multi-PC)

Why KVM Switches Are Needed KVM switches let you control multiple computers with one keyboard, mouse, and

Aug 14, 2025

KVM Switch Selection Guide

The table below summarizes the types of KVM switches, from enterprise-wide IP access to the extension of a single computer. Look

Oct 11, 2025

How to Connect a KVM Switch to the Server

Some customers who buy the KVM switch have no idea how to connect the equipment with the right wires. Today, we

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Top 6 Considerations When Choosing a KVM Switch

A KVM switch provides a quick and cost-effective way to access several PCs with just a single monitor, keyboard and

Contact Us

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