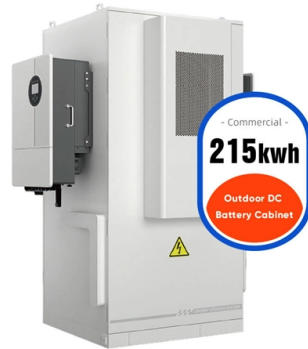


Interface st-412



Overview

The ST-412 interface and its variants were the de facto industry standard for personal computer hard disks until the advent and wider adoption of the IDE or ATA interface in the early 1990s. Overview The ST-506 and ST-412 (sometimes written ST506 and ST412) were early introduced by in. The ST-506 HDD was the first 5.25 inch, introduced in 1980 by Shugart Technology (now). It stored up to 5 megabytes after formatting (153 cylinders, 4 heads, 32 sectors/trac. In the ST-506 interface, the drive connects to a controller card with two ribbon cables carrying signals, while a third cable provides power. The two signal cables are the wide 34-pin control cable and the narrow 20-. Many other companies quickly introduced drives using the same connectors and signals, creating a hard drive standard based on the ST-506. chose to use it, acquiring adapter cards for the from and.



Article Content

Hot

Seagate ST 506/412 OEM MANUAL | Manualzz

Seagate ST 506/412 OEM MANUAL - This document provides detailed information about the Seagate ST 506 and ST 412 internal hard drives, including their specifications, features, and operational

Mar 27, 2026 Hot

Hard Disk Drives/ Seagate // retrocmp / retro computing

This model's success was due to its reliability, compatibility with the ST-506 interface (widely used at the time), and affordability. It became a standard storage option for many early IBM PC compatibles,

Aug 18, 2025 Hot

Seagate ST-412

This was the beginning of storage as we know it. Shugart was responsible for the genesis of the two hard drive interfaces that were to dominate the PC world for decades, SCSI and ST-506/412. In 1980

Mar 21, 2026 Hot

Crude Anatomy of an "MFM" Hard Drive

What is commonly referred to as an "MFM" drive, is really a drive that uses the ST506/ST412 interface. Originally, only 4 heads were supported, because the third head-select bit (bit 2) was not used; it was

Apr 24, 2026 Hot

Solved: How can I interface an LCD with an

Hi, I have an STM32L412RBT6P microcontroller and a CFAG12864T3-NFH LCD which uses an ST7565 controller. I want to use SPI to communicate

Jan 07, 2026 Hot

Datasheet

They also feature standard and advanced communication interfaces, namely three I2Cs, two SPIs, three USARTs and one Low-Power UART, one USB full-speed device crystal less.

Nov 21, 2025 Hot

Hard Disk Drives/ Seagate // retrocmp / retro computing

Shugart was responsible for the genesis of the two hard drive interfaces that were to dominate the PC world for decades, SCSI and ST-506/412. In 1980 Shugart produced the world's first 5.25 inch hard

Dec 07, 2025 Hot

Seagate technology ST-412 Manuals | ManualsLib

Manuals and User Guides for Seagate Technology ST-412. We have 1 Seagate Technology ST-412 manual available for free PDF download: Service Manual

Aug 22, 2025 Hot

ST506/412

ST506/412 Interface pinout. 34-pin control and 20-pin data connector details for MFM/RLL hard drives.

Apr 19, 2026 Hot

seagate :: ST506 ServiceMan May82

The Index sensor provides an index pulse to the recalibration circuit and to the interface of the ST-506 drive. Once each revolution (16.67 ms), the Index sensor outputs a pulse that is typically 200

Oct 06, 2025 Hot

Datasheet

STM32F412xE STM32F412xG Arm®-Cortex®-M4 32b MCU+FPU, 125 DMIPS, 1MB Flash, 256KB RAM, USB OTG FS, 17 TIMs, 1 ADC, 17 comm. interfaces

Aug 10, 2025 Hot

Seagate ST-412

File Logs April 1982 ST-506/412 OEM Manual 0 audio files available Last updated 2 March 2025, 09:55 PST

Apr 30, 2026 Hot

ST11M, ST11R ST412 Interface Controller Installation Guide

It is often easier to attach the cables before you install the controller. 6 ST1 1M/ST1 1 R Controller Installation Guide, Rev. E Figure 3: ST 1 1M/ST11R ST412 Interface Controller J2 Drive 1 J3 -Drive 2

Jun 22, 2026 Hot

Changes to the ST-506/ST-412 Interface

Release of the ST-412 Drive Reference 3 indicates that the interface between controller and drive remains the same, and therefore the limitation of 4 heads maximum remains.

Jan 28, 2026 Hot

seagate :: ST412 OEMmanual Apr82

4.0 Electrical Interface The interface to the ST-506/412 can be divided into three categories, each of which is physically separated.

Jan 25, 2026 Hot

Wang Reprint: Seagate ST406/412 Microwinchester Maintenance

The ST-400 series has the same physical dimensions, recording format, transfer rate, interface, power supply and controller requirements as the industry standard Seagate ST-506. Controllers are

Mar 25, 2026 Hot

ST-506/ST-412

The ST-506 and ST-412 (sometimes written ST506 and ST412) were early hard disk drive products introduced by Seagate in 1980 and 1981 respectively, that later became construed as hard disk

Jun 20, 2026 Hot

ST506 disk interface

The ST506 disk interface (other common names: ST412, ST506/ST412, or often the misleading MFM disk) was introduced in 1980 by Seagate with the 5MB hard disk of the same name.

Jan 27, 2026 Hot

seagate :: ST412 OEMmanual Apr82

The ST-506/412 electrical interface is similar to Shugart Associates' SA1000 family of 8 inch fixed disc drives. ST-506/412 size and mounting are identical to the industry standard minifloppy disc drives,

Sep 05, 2025 Hot

ST11M, ST11R ST412 Interface Controller Installation Guide

The ST11M and ST11R are 8-bit ST412 interface controllers designed for use in PC XT/AT systems with DOS-based applications. Use with other than DOS-based systems is beyond the scope of this

Jun 24, 2026 Hot

How can a ST-412 MFM hard drive be integrated with a modern PC?

Is it possible to get this hard drive working with a modern PC? My thoughts are to either find a ST-412 MFM controller for ISA and hope I can find some drivers that work in Windows XP or Linux or to try to

Oct 08, 2025

Contact Us

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