

FireWire

by
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What is FireWire?

- FireWire is a high speed serial data bus
- It can move large amount of data between computers and peripheral devices
- FireWire can speed up data transfer rates
- FireWire is a hotrod technology

Advantages

- Transfer speed of up to 800mbps
- It features simplified cabling
- Hot swapping
- Enables easy connection of digital devices directly to a PC

HISTORY

*SCSI (Small Computer System Interface)

- Devices couldn't be unplugged without causing your computer crash
- Data transfer were sluggish
- Couldn't easily swap multiple devices on the same port

FireWire 800 & FireWire 400

- FireWire 400 has the speeds up to 400mbps
- FireWire 800 has the Speed of up to 800mbps
- Increased Cabling distance

FireWire and USB

- In the mid of 1990's FireWire is developed by Texas Instruments and Apple computers
- Fire Wire is also known as IEEE 1394 or i.LINK
- Both technologies offer faster data transfer rates

WORKING

Backplane bus interfaces and point-to-point interface

- Backplane bus supports 50mbps data transfer
- Point-to-point supports 400mbps data transfer

Asynchronous data transfer

- It is for traditional_load-and-stores applications
- Data transfer can be initiated and an application interrupted as a given length of data arrives in a buffer

Isochronous data transfer

- Data flows at a pre-set rate
- For multimedia applications ,this kind of data transfer reduces the need of buffering and helps ensures a continous presentation for the viewer

FireWire capabilities

- A simple plug and socket connection
- Capacity (about 63 device)
- Thin wire cable
- Hot plug and play capacity

Operating system support

FireWire on Windows XP

- Windows XP has built in IEEE 1394 support
- IEEE 1394 adapter
- TCP/IP protocol

USB v/s FireWire

- USB is considerably faster than FireWire
- FireWire have the ability to draw power from the computer
- FireWire devices are more expensive than USB

Applications

- The major application of FireWire is in media sharing

Aircraft

- FireWire is used in military aircraft
- NASA's space shuttle also uses FireWire to monitor debris
- Automobiles
- Digital video
- Special cameras
- IIDC (Instrumentation & Industrial Digital Camera)

THANK YOU

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