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Ultra2320 SCSI Bus Analyzer

Specifications

Datasheet

Configurations

Why Buy Ancot?

KEY FEATURES

- ▼ Support for SCSI speeds up to Ultra320, including complete data capture at 320 MBytes/sec transfer rate
- ▼ Deep trace memory (up to 32 MEvents)
- ▼ Time Resolution of 2 nsecs
- ▼ Support for advanced Ultra320 features such as ST, DT and paced transfers, domain validation, QAS and packetized protocol
- ▼ Hardware CRC checking in real time
- ▼ High-speed WarpSearch™ Search Engine
- ▼ LVD, HVD and SE interfaces, automatically detected
- ▼ Easy-to-use graphical user interface supporting multiple views of captured trace data
- ▼ Remote operation over Ethernet/Internet
- ▼ Available in a variety of packages, including PCI Card, Notebook Companion, Minitower and Lunchbox
- ▼ Full Three Year Warranty
- ▼ Programmer's Development Kit for custom application development (optional)



The new Ancot Ultra2320 is the premier tool for debugging, repairing and optimizing SCSI devices or systems. The Ultra2320 supports advanced SCSI Ultra320 features, including both ST (single transition) and DT (double transition) data transfers, hardware CRC checking, domain validation, packetized SCSI, QAS and parallel protocol request (PPR). The Ultra2320 supports trace memory up to 32 million events (32 MEvents), includes the powerful WarpSearch hardware search engine and enables complete remote control and operation over Ethernet and Internet networks from any host computer.

By capturing and displaying SCSI traffic, including all commands and data, the Ultra2320 shows the user a complete and easy-to-understand picture of SCSI bus activity. The Ultra2320 is an essential tool for developing device drivers and firmware for SCSI devices and host bus adapters. By providing a direct view of bus activity, the Ultra2320 enables engineers to quickly locate sources of problems and ensure compliance with all specifications.

The Ultra2320 is also an aid to system integrators, to ensure quick identification of problems and to help optimize performance of SCSI devices in heavily-loaded and high data rate environments. The Ultra2320 is the simplest and easiest way to identify the source of bus hangs, device errors, timing mismatches and a host of other potential problems.

With a double-clocked timing resolution of 2 ns, the Ultra2320 is fully capable of capturing and displaying all SCSI bus activity at Ultra320 speeds of 320 MBytes/sec even under less-than-optimal conditions. Deep trace memory, hardware search, network connectivity, and a simple pull-down menu interface in a choice of packages combine to make the Ultra2320 the new industry standard for high-performance SCSI analyzers.

SYSTEM SPECIFICATIONS

SCSI Interfaces

- SCSI-3, SCSI-2 and SCSI-1 protocol support
- Low Voltage Differential (LVD), Single-Ended (SE) and High-Voltage Differential (HVD)
- WIDE (16-bit) and NARROW (8-bit) data paths
- Ultra320 (320 MBytes/sec) support, including DT and paced data transfers, CRC, domain validation, packetized, PPR and QAS

Capture Capabilities

- Data capture rates to 320 MBytes/sec (160 MHz, 16-bit)
- Capture all four REQ/ACK edges at full 320 MB/s rate
- 2 ns resolution for REQ/ACK and timestamps; data capture precision exceeds Ultra320 specifications
- Three models: 8, 16 and 32 MEvents (1 MEvent = 1 Million Events)
- Passive, event-driven recording

User Interface

- Simple "Run-Stop-Display" control via one-touch keys
- Graphical user interface with pull-down menus
- Sophisticated multiuser trigger/filter protocol allows capture of complex test suites
- Full remote control capability from any host over Ethernet and Internet networks (using included VNC application)

Display Formats

- Detailed display of all SCSI events
- Waveform display of all timing data
- Bus Phase Display organized by SCSI bus phase
- Thread Execution trace display
- Simple one-button flip between display modes

Trigger and Filter Controls

- Trigger on parity errors, SCSI resets, selection IDs, timeouts, message/command status codes, external events, and combinations of events
- Filter based on SCSI ID, phase changes, save or skip data

Standard Features

- 68-pin female SCSI connector
- Auto detection of SE / LVD / HVD

Configurations

- PCI Card for installation into host PC
- Portable Notebook Companion for use with notebook PCs (interface via PCMCIA slot)
- Complete Minitower system include host PC with PCI card and software preinstalled
- Complete Lunchbox system includes portable PC with PCI card and software preinstalled

Options

- Programmer's Development Kit allows direct control of SCSI analyzer from a user program written in C/C++
- External Events Interface records status of four external TTL lines with each SCSI event and provides for external trigger (out from analyzer)

Warranty

- Three years, 100% coverage of all parts, labor and technical support





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