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# FCT-5500

## Fibre Channel Generator



### FEATURES

- ▼ Supports optical fiber or copper media at 1.06 Gbps
- ▼ Emulates N\_, NL\_, F\_ and FL\_Ports
- ▼ Supports all topologies, including point-to-point, arbitrated loop and fabric
- ▼ Simple and powerful editors support development of custom test suites
- ▼ Controlled by a Windows PC host via serial port
- ▼ Allows error testing of illegal codes specified on 10B level
- ▼ Allows complete low-level control of loop initialization
- ▼ Includes separate 1MB Read and 1MB Write buffers
- ▼ Includes library of FC frames and test examples for specific applications
- ▼ Small, easily portable, rugged and highly-reliable

The Ancot FCT-5500 Fibre Channel Generator is a protocol debugging tool and programmable traffic and error generator for Fibre Channel systems. The FCT-5500 is an essential tool for development, integration and repair of Fibre Channel systems and individual Fibre Channel devices.

The FCT-5500 system includes a comprehensive library of FC frames and commands. Also included are example tests that can be modified by the user to create custom test suites. A unique feature of the FCT-5500 is the ability to generate illegal codes (10B) for error testing. Support is provided for all standard topologies-point-to-point, arbitrated loop and fabric.

Packaged in a small, stand-alone enclosure, the FCT-5500 is well suited for production, laboratory, field or classroom applications where ease-of-use, versatility and high reliability are critical.

Ancot's new FCT-5500 is an ideal debugging and test tool for Fibre Channel developers, manufacturers and system integrators. The FCT-5500 provides an easy-to-use, yet very versatile test system.

The FCT-5500 generates FC traffic controlled interactively or automatically. Transmission words, frames or sequences can be transmitted as a single event, or in contiguous repetitive or random repetitive (burst) mode. The system is also user programmable allowing generation of simple or complex test suites to be used in engineering verification testing, incoming inspection, etc.

The FCT-5500 includes a library of FC frames and test examples, and is simple to set up and use within minutes. The true power of the system is in providing the user with the ability to easily generate simple test suites appropriate to the devices or systems under test. Test suites may be composed of sequences of Fibre Channel frames, or may include error condition testing of any legal or illegal codes. Illegal codes can be generated directly on the 10B level to provide the user complete flexibility in test design. The FCT-5500 can emulate either host or target.

The FCT-5500 is extremely economical for high-volume manufacturing test. For simple testing requirements, the user can easily generate custom tests. For more complex or detailed testing, the FCT-5500 is supported by third party test developers who can provide extensive test suites that are customized to the device or application.

## SYSTEM SPECIFICATIONS

### Standard Software Features

- Library of Fibre Channel frames and primitives
- Example test suites (e.g., disk initialization, read and write operations)
- Powerful editors for generating custom test suites
- FC Link Monitor displays received and transmitted traffic in side-by-side split screen format
- Requires Windows 95/98 PC with available serial port

### Test Suite Generator

- Can generate individual transmission words (primitives), frames, streams of frames, or sequences
- Uses simple IF/THEN to construct complex test suites
- Executes tests singly, in bursts, continuous or random
- Can specify transmission words at high level using FC mnemonics, at K/D format level, at 8B level or at 10B level
- Supports any legal or illegal 8B or 10B codes
- Provides separate 1MB Read and 1MB Write buffers

### User Interface

- Full graphical user interface on Windows PC controller
- Remote control capability from any host
- Simple push-button control and alphanumeric display

### Fibre Channel System Interface

- Supports either copper (DB-9) or optical fiber (SC)
- Supports all topologies, including point-to-point, arbitrated loop, or fabric
- Emulates any standard port: N\_, NL\_, F\_ or FL\_Port

### Test Suite Editors

- Transmission Word Editor creates individual four-Byte transmission words. Can generate new words or modify existing words from library. Supports entry in K/D format, Hex, 8B or 10B. Can specify repeat count as attribute.
- Frame Editor creates and edits transmission frames. Submenus allow easy editing of individual fields. Fields with repeating values (e.g., S\_ID or D\_ID) can be programmed globally.
- List Editor creates and modifies sequences or arbitrary lists of items (words, frames, or lists). Lists can be sent with a single selection.
- If/Then Editor creates conditional statements and procedures, e.g., wait for specific response, wait a specified time, or branch to another test depending on outcome of first test.

### Arbitrated Loop Support

- The FCT-5500 can perform loop initialization as the master or can participate as a slave. The FCT-5500 has the full AL state machine implemented in hardware.
- The Arbitrated Loop Initialization dialog box is used to enter AL initialization parameters. The parameters include ALPAs, master/slave, timeout actions and timeout values. During initialization, the dialog box displays the results of initialization including the loopstate, ALPA bitmap and position map.

### Packaging and Power

- Housed in small, rugged, stand alone enclosure
- Dimensions: 10"W x 3"H x 12.75"D / 25 x 7.5 x 32 cm
- AC Power: 110-220V, 50-60Hz

### Configuration Options

- FCT-5500/M for multimode optical fiber (SC connectors)
- FCT-5500/C for copper (DB-9 connectors)
- FCT-5500/PDK Programmer's Developer Kit includes C library interface and documentation

### Warranty

- One year, 100% coverage of all parts and labor

Prices and specifications subject to change without notice.

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