

FS51C

2 thru 32 Channel Bi-directional Amplifier System

- < 120 μ sec Delay
- Highly Stable Gain
- Full-Duplex
- Wide Range of Input Signal Levels
- Scalable Channel Capacity
- Modular Design Supports Custom Configurations



INTRODUCTION:

Fiber-Span's Channelized Bi-directional Amplifiers will enable your 2-way communications system to provide coverage in areas that are normally beyond your system's reach. These Class A amplifier systems, which meet or exceed the FCC Part 90 requirements, provide a high degree of filtering, low noise, Automatic Gain Control and a wide range of frequency selections. All sensitivity settings, frequency controls, and power outputs are under computer control. The group delay specification for this narrowband product is < 120 μ secs. This very low RF delay, which is required for most trunked repeater systems, is unique to this amplifier. This State of the Art unit is truly field programmable for site specific operation.

DESCRIPTION:

The standard Multi-Channel Bidirectional Amplifier configuration consists of 8 uplink and 8 downlink channel modules (Tx/Rx) configured as an 8-channel, full duplex repeater. Sixteen synthesized

LO's are field programmable allowing for a highly flexible system design. Each channel is independently programmed for key line time-outs and shutdown procedures. System monitoring software provides self diagnostics, fault detection, and protection from undesired operations and is locally connected to the unit via an Ethernet network (IP Addressable).

The Multi-Channel Bi-directional Amplifier has a flexible and scalable design and can be configured to support up to a 32-channel bi-directional repeater system. Consult the factory for systems requiring more than 32 channels.

MONITORING CONTROL AND STATUS SOFTWARE:

The controller card offers a convenient serial port for locally monitoring and controlling each system module and other system components. The controller's Ethernet communications port can be used to interface with Fiber-Span's Network Management System software,

or other third-party NOC software via SNMP traps. The following is a brief description of the GUI Software interface that comes standard with this product.

The main screen layout consists of 3 tabs for convenience in switching between the three software control panels - System Status Overview, Diagnostics, and Maintenance and Configuration. The System Status Overview is used for monitoring the status of the active and backup systems. The Diagnostic function allows entering commands for diagnosing problems. The Maintenance and Configuration function is used to configure the system parameters such as assigning a service frequency to a chassis and slot, setting the gain, turning channels on or off and other control features. If it is preferred to limit access to the configuration and diagnostic functions, they can be programmed to be menu driven. In either case, the Configuration and Diagnostic function screens can be password protected to prevent unauthorized access.

Fiber-Span is a world-leading manufacturer of RF ON FIBER® Communication Network Products for in-building, in-tunnel and outdoor coverage extension systems serving the Commercial Wireless, Public Safety, Government and Military markets.

