1RU Digital Controllers for Antenna or Rack Mount Amplifiers/Systems

XTC-114D

FEATURES

- Full Amplifier Status and Control
- Remote/Local Control via Serial or Parallel Interface
- Full Amplifier Status Front Panel Digital Display
- Compact 1RU Design

The Comtech Xicom line-up of 1RU digital controllers are designed to complement our line of digital and analog amplifiers by enabling their use in single thread, redundant or phase-combined system configurations. These controllers provide system control and offer local amplifier function controls.

COMTECH XICOM TECHNOLOGY

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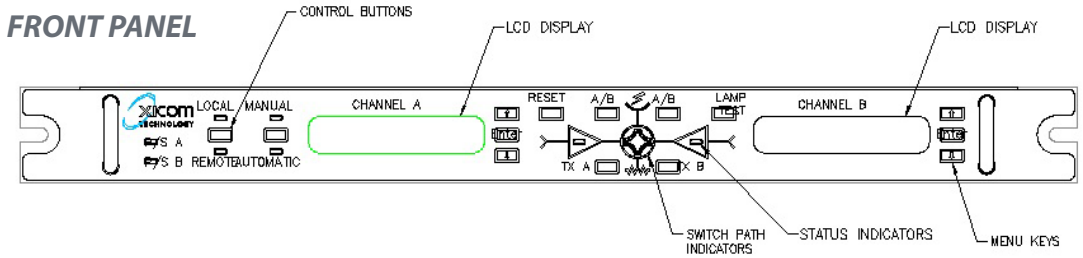
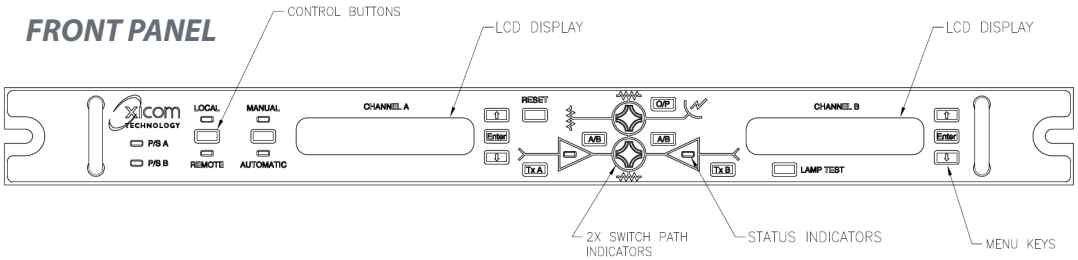
XTC-114D

The **XTC-114D** controller is compact and requires only one rack unit (1 ¾ inches) of space in a standard 19-inch rack. By providing a single interface point, users can communicate with both amplifiers by connecting a single RS-232 or RS-422/485 serial connection or an Ethernet connection to the controller rear panel. The front panel status and control functionality is available through both the serial and Ethernet connections. The two-line front panel display shows the status for each amplifier, including TWT temperature, helix current, forward and reverse power (assuming the forward power option is purchased with the amplifier) and more. The **XTC-114D** controller is user configurable for single thread, 1:1 redundant operation or 1+1 (hybrid combiner) operation, which makes it the most versatile controller we offer. Also, using the **XTC-114D** along with a single amplifier (1:0) allows a flexible upgrade path to a redundant system (1:1) later. ***New***: optional web browser interface allows remote monitor and control via standard web browser (IE 6.0 or later).



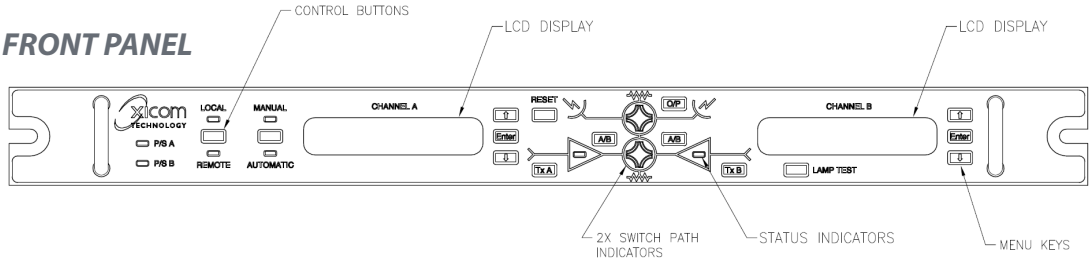
XTC-115D

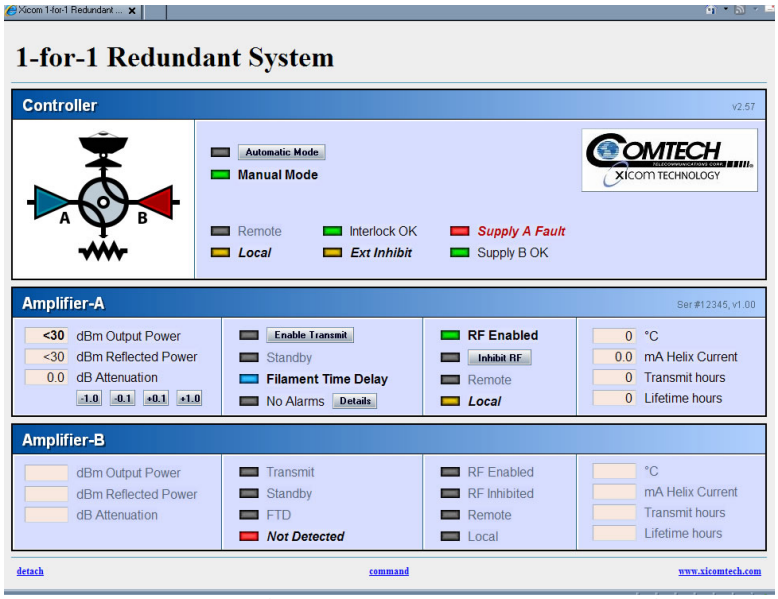
The **XTC-115D** controller is, like the XTC-114D controller, compact and requires only one rack unit (1 ¾ inches) of space in a standard 19-inch rack. It is based on the XTC-114D controller and so it carries the same communication and control options. The **XTC-115D** also carries forward the new (optional) web browser interface, allowing remote monitor and control via standard web browser (IE 6.0 or later). The advantage of the **XTC-115D** controller is that it specifically illustrates a 1:1 redundant system configuration ***with load switch*** on the front panel, making it the perfect controller to conveniently monitor and control such a system.



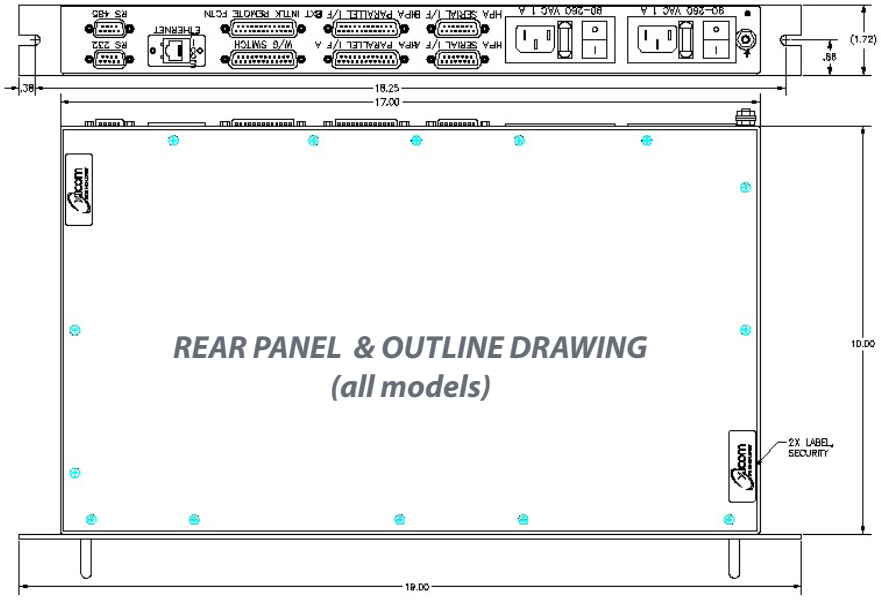
XTC-116D

The **XTC-116D** controller is, like the XTC-114D controller, compact and requires only one rack unit (1 ¾ inches) of space in a standard 19-inch rack. It is based on the XTC-114D controller and so it carries the same communication and control options. The **XTC-116D** also carries forward the new (optional) web browser interface, allowing remote monitor and control via standard web browser (IE 6.0 or later). The advantage of the **XTC-116D** controller is that it specifically illustrates a 1:1 redundant system configuration ***with polarity switch*** on the front panel, making it the perfect controller to conveniently monitor and control such a system.





Screen shot of optional web browser interface



SELECTOR GUIDE

1RU Controller	Configurations Supported
XTC-114D	• 1:0 (single amp), 1:0 (two single amps) • 1:1 Redundant System • 1+1 (Hybrid Combiner/Switch-Around)
XTC-115D	The following configurations w/Load Switch: • 1:0 (single amp), 1:0 (two single amps) • 1:1 Redundant System • 1+1 (Hybrid Combiner/Switch-Around, for digital antenna-mount applications only)
XTC-116D	The following configurations w/Polarity Switch: • 1:0 (single amp), 1:0 (two single amps) • 1:1 Redundant System • 1+1 (Hybrid Combiner/Switch-Around, for digital antenna-mount applications only)

MONITOR & CONTROL FUNCTIONS

Type	Function	
CONTROLS	Local/Remote	Manual/Automatic
	HPA Power ON/OFF	Set Attenuation (digital amplifiers only)
	TX ON/OFF	Fault Reset
	Waveguide Switches	Set Alarms:
	RF Inhibit Enable/Disable	Low Power
	Channel Select	High Power
	Lamp Test	Reflected Power
STATUS - 2-Line Display	Not Detected	RF Power*
	TWT Temperature	Reflected Power*
	Helix Current	
	Faults:	
	Summary Fault	
	Over Temperature Fault	
	Reflected Power Fault	
	High Voltage Fault (TWTA only)	
	Helix Current Fault (TWTA only)	
	RF Chain Fault	
	High RF Fault	
	Low RF Fault	
	External Interlock Fault	
	Upconverter Fault (Amplifier with internal BUC only)	
	Low Line Fault	
	Amp Fan Lock Fault (SSPA only)	
	Power Supply Fault (SSPA only)	
	Amp F/W Checksum Bad	
	Amp CPU Voltage Low	
	Amp Cover Interlock Fault	
	Amp Thermal Interlock Fault (Digital TWTA only)	
	Overdrive Fault (Digital TWTA only)	
	Momentary Helix Arc (Digital TWTA only)	
STATUS - LEDs	Local/Remote	Filament Time Delay (TWTA Only)
	Manual/Automatic	Waveguide Switch Position(s)
	TX ON/OFF	Standby
COMPUTER - Hardware Interface	Ethernet Port	2 Serial Ports: RS-232 and RS-422/485
SERIAL/ETHERNET PORT - Xicom Command Set	ASCII Commands	

* Only available if options are purchased with amplifier(s).

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