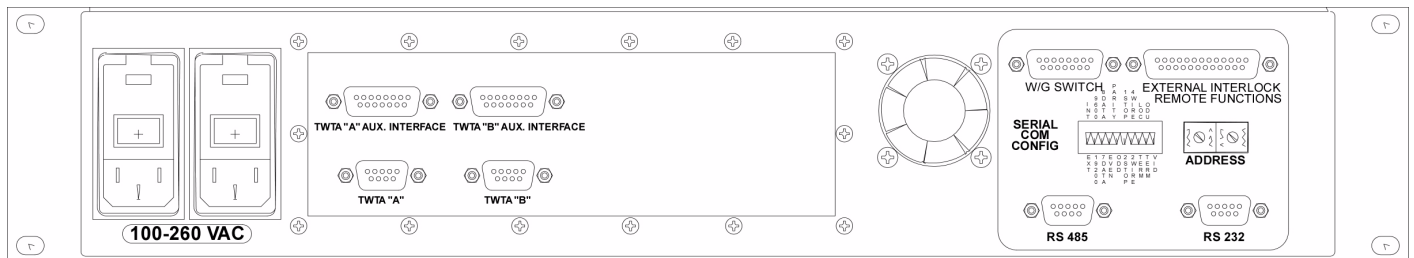




# XTC-110D

## 1:1 Redundant HPA Controller



- **Compatible With All Xicom Rack Mount Amplifiers**
- **Full Hpa Amplifier Status**
- **Front Panel LED Display**
- **Rack Mounted — 2 Rack Units High**
- **Remotely Controllable Via Serial Interface**

The XTC-110D 1:1 Redundant Controller is designed to allow the redundant operation of Xicom Technology's line of digital rack mount amplifiers. The controller allows for remote switching, control and monitoring from the ground station's M&C via an RS-232 or RS-485 serial interface. Because control functions and status requests are passed through the controller to each HPA, only one customer

serial line is required for complete M&C of the system. Amplifiers may also be activated and switched from the front panel.

The unit is compact and requires only two rack units (3.5 inches) of a standard 19 inch rack. Total required rack space for a full 1:1 Redundant HPA system is 8 RU (14 inches) for amplifiers up to 400W, and 24 RU (42 inches) for 600W - 2250W amplifiers.

# LOCAL FUNCTIONS

TYPE	FUNCTION	
CONTROLS	Local/Remote	Channel Selected — A/B
	Manual/Automatic	Fault Reset
	High Voltage ON — A/B	Lamp Test
STATUS	Local/Remote	Manual/Automatic
	High Voltage ON †	Summary Fault †
	Standard Output Switch Position	Filament Time Delay (FTD) †
	Summary Fault A/B/C	Standby †
	Transmit Select A/B	

† One Mode of Multifunction LED

# REMOTE FUNCTIONS VIA RS-232/485

TYPE	FUNCTION	
CONTROLS— A/B	Channel Select ‡	High Voltage ON
	High Voltage OFF (resets all faults)	Set Power (gain adjust)
	Heater Standby (on/off)	Fault Reset ‡
	Manual/Automatic ‡	Set Alarm or Fault Detection On/Off
	Set Alarm/Fault Limit Values	Low Power
	Minimum Power	High Power
	Maximum Power	Reflected Power
STATUS — A/B	Parameters (A)	Standby
	Helix Current	Local/Remote (HPA)
	Helix Voltage	Local/Remote-HPA
	Temperature	Summary Fault
	Heater Hours	High VSWR Fault
	Beam Hours	High Voltage Fault
	RF Power	Helix Current Fault
	Reflected Power	Low Power Alarm
	High Voltage Selected	Reflected Power Alarm
	High Power Alarm	Filament Time Delay (FTD)
	STATUS — Controller	Channel Select ‡
Local/Remote — Controller ‡		

‡ Controller Functions Only

