

XTC-110D

1:1 REDUNDANT HPA CONTROLLER

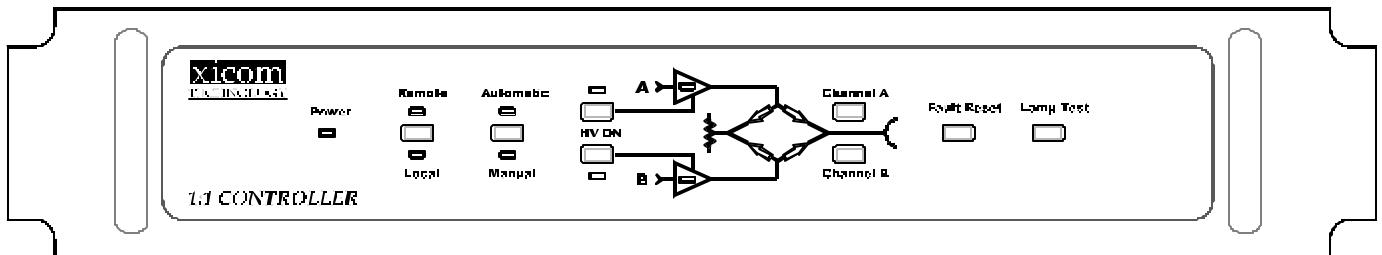
Features

- Compatible with all Xicom Digital Rack-Mount Amplifiers
- Full HPA amplifier status
- Front panel LED display
- Rack mounted - 2 rack units high
- Remotely controllable via serial interface

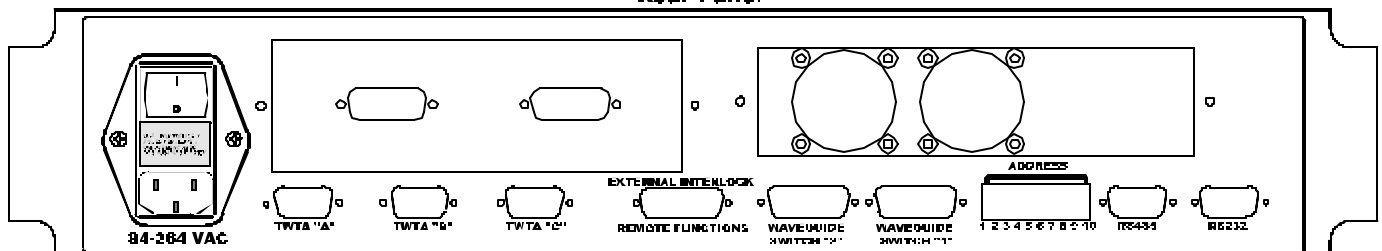
The XTC-110D 1:1 Redundant controller is designed to allow the redundant operation of Xicom Technology's line of digital rack-mount amplifiers. The controller allows for remote switching, control, and monitoring from the ground station's M&C via an RS-232 or RS-485 serial interface. Because control functions 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 ½ 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.

Front Panel



Rear Panel



LOCAL FUNCTIONS

Control Functions	Status Indicators
<ul style="list-style-type: none"> • Local / Remote • Manual / Automatic • High Voltage On - A/B • Channel Selected - A/B • Fault Reset • Lamp Test 	<ul style="list-style-type: none"> • 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

Control Functions - A/B	
<ul style="list-style-type: none"> • Channel Select ‡ • High Voltage On • High Voltage Off (resets all faults) • Set Power (gain adjust) • Heater Standby (on/off) • Fault Reset ‡ • Manual/Automatic ‡ 	<ul style="list-style-type: none"> • Set Alarm or Fault Detection On/Off <ul style="list-style-type: none"> ▪ Low Power ▪ High Power ▪ Reflected Power • Set Alarm/Fault Limit Values <ul style="list-style-type: none"> ▪ Minimum Power ▪ Maximum Power ▪ Reflected Power
Status Indicators - A/B	
<ul style="list-style-type: none"> • Parameters (A) <ul style="list-style-type: none"> ▪ Helix Current ▪ Helix Voltage ▪ Temperature ▪ Heater Hours ▪ Beam Hours ▪ RF Power ▪ Reflected Power • High Voltage Selected • Local/Remote (HPA) • Local/Remote-HPA 	<ul style="list-style-type: none"> • Summary Fault • High VSWR Fault • High Voltage Fault • Helix Current Fault • Temperature Fault • Low Power Alarm • High Power Alarm • Reflected Power Alarm • Standby • Filament Time Delay (FTD)
Status - Controller	
<ul style="list-style-type: none"> • Channel Selected ‡ • Manual/Auto ‡ 	<ul style="list-style-type: none"> • Local/Remote-Controller ‡

‡ Controller functions only