

XTC-111D

1:1 REDUNDANT TWTA CONTROLLER

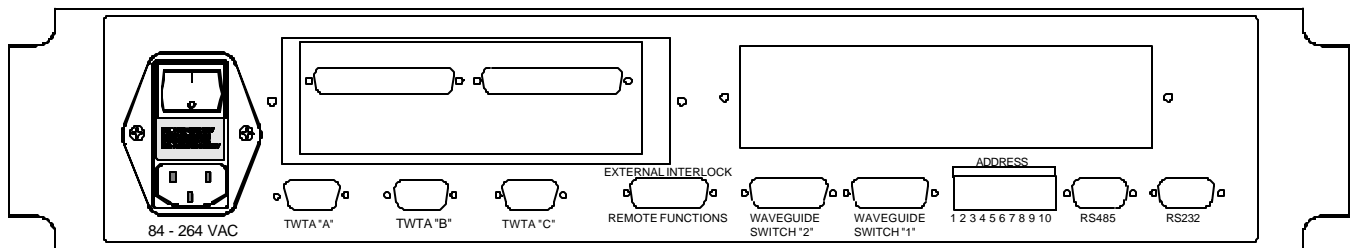
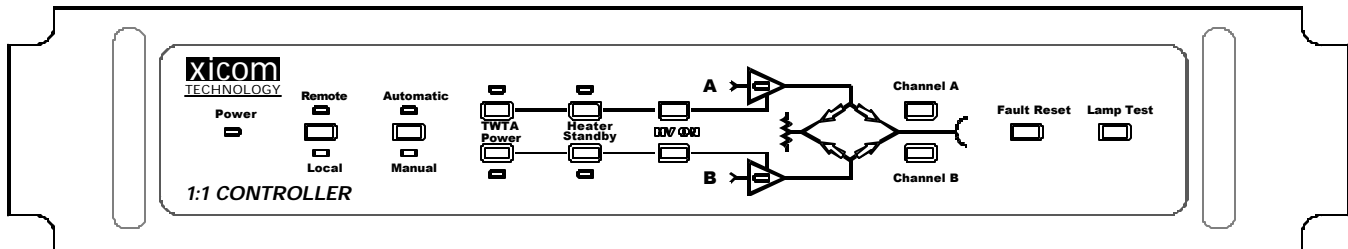
Features

- Compatible with all Xicom digital antenna-mount amplifiers
- Full TWTA status
- Dual function capability, TWTA controller and redundant system controller
- Front panel LED display
- Two rack units high (3 ½ inches)
- Remotely controllable via serial interface

The XTC-111D 1:1 redundant controller is designed to allow redundant operation of Xicom Technology's line of antenna mount amplifiers. This dual function controller eliminates the need for a separate TWTA controller for each antenna mount unit. The unit is compact and requires only two rack units (3 ½ inches) of a standard 19 inch rack.

The XTC-111D 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 TWTA, 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.

Front Panel



Rear Panel

LOCAL FUNCTIONS

Control Functions	Status Indicators
<ul style="list-style-type: none"> • Power On / Off • Local / Remote • Manual / Automatic • High Voltage On - A/B • Channel Selected - A/B • Heater Standby On / Off • Fault Reset • Lamp Test 	<ul style="list-style-type: none"> • Local / Remote • Manual / Automatic • High Voltage On † • AC Power On • Filament Time Delay (FTD) † • Waveguide Switch Position • Input Switch Position • Summary Fault † • HPA Standby • Power ON • Heater Standby

† One mode of multi-function LED display

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 (optional) • 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 • Minimum Power • Maximum Power • Reflected Power
Status Indicators - A/B	
<ul style="list-style-type: none"> • HPA Parameters <ul style="list-style-type: none"> ▪ Helix Current ▪ Helix Voltage ▪ Temperature ▪ Heater Hours † ▪ Beam Hours † ▪ RF Power † ▪ Reflected Power † • High Voltage Selected • Beam On • 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)
† One mode of multi-function LED display	
Status Indicators - Other	
<ul style="list-style-type: none"> • Channel Selected • Manual/Auto 	<ul style="list-style-type: none"> • Local/Remote-Controller



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