- **Compatible with all Xicom Antenna Mount Amplifiers**
- **Separate Amplifier Status for each HPA**
- **Two Line Front Panel Displays**

- **Front Panel Waveguide Switching**
- **Compact 1 Rack Unit Size**
- **Remotely Controllable Via Serial Interface**

The XTC-114D 1:1 Redundant Controller is designed to allow the redundant operation of Xicom Technology's antenna mount amplifiers. 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 the serial connection.
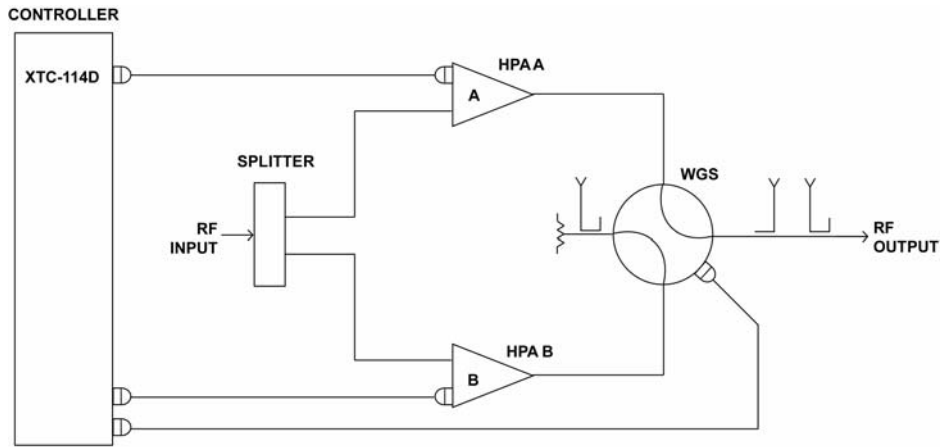
The XTC-114D is compact and requires only 1 rack unit (1.75 inches) of a standard 19 inch rack. The two line front panel displays show the status of each amplifier, including TWT temperature, Helix Voltage, and Helix Current. If the forward power option is purchased with the TWTA, Power Out can also be viewed on the front panel display.

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MONITOR AND CONTROL FUNCTIONS

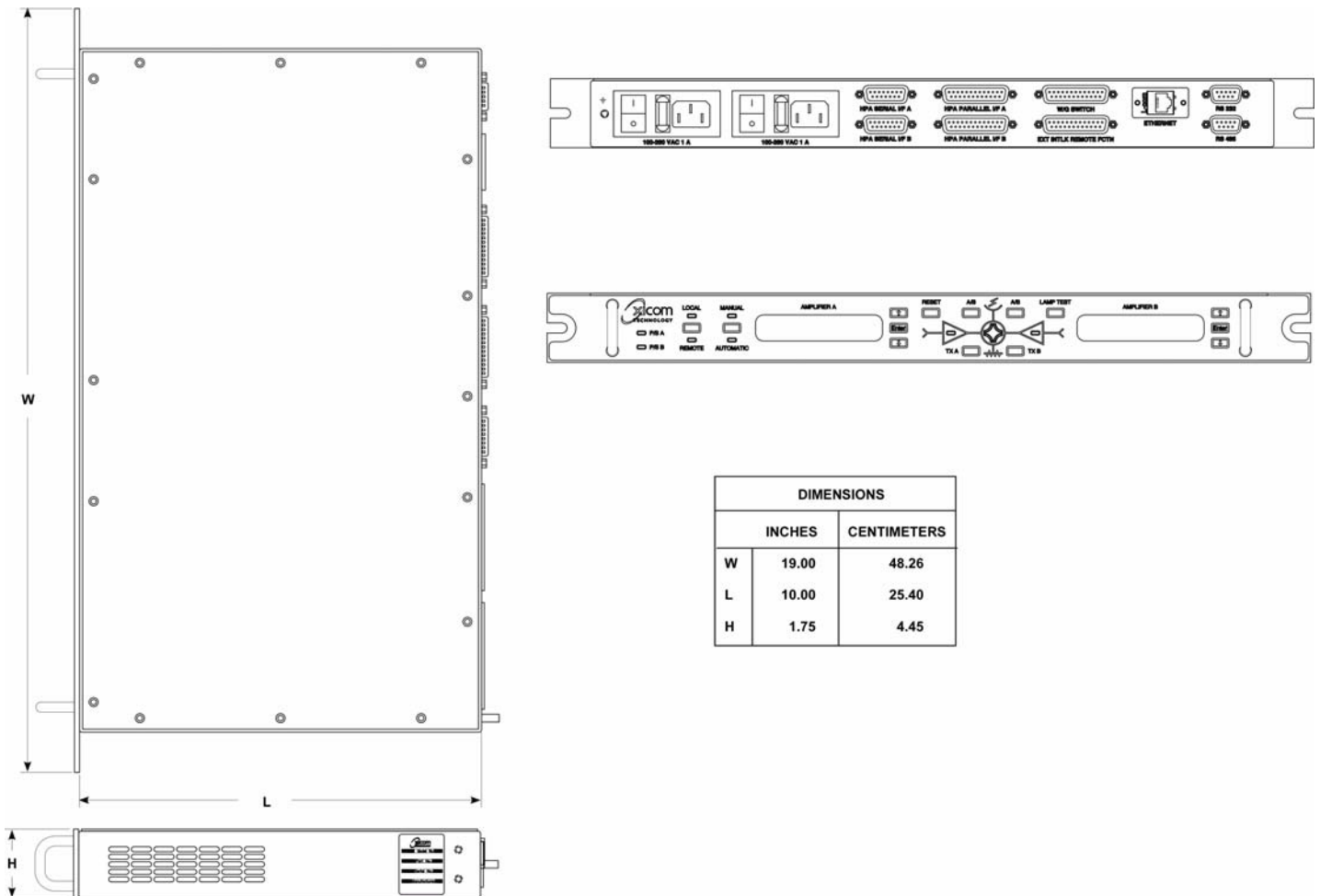| TYPE	FUNCTION			
CONTROLS	Local/Remote	High Voltage ON/OFF	Manual/Automatic	HPA Power ON/OFF

STATUS — 2-line Display	Not Detected
	
	RF Power †
		Helix Voltage
		
		Reflected Power †
			Helix Current
			
			TWT Temperature
				Faults:
				  TWT Temperature
				  High VSWR
				  Helix Current
				  Summary
				  Helix Voltage

STATUS — LEDs	Local/Remote Standby	Manual/Automatic	HPA Power ON/OFF	High Voltage ON/OFF
COMPUTER Hardware Interface	2 Serial Ports: RS-232 and RS-422/485 Ethernet Port			
SERIAL PORT Xicom Command Set	ASCII Commands			

†Only available if options are purchased with amplifier.

BLOCK DIAGRAM

CONTROLLER

XTC-114D

HPA A

A

SPLITTER

RF INPUT

WGS

HPA B

B

RF OUTPUT

OUTLINE DIAGRAM

W

L

H

100-200 VAC 1 A   100-200 VAC 1 A   HPA SERIAL I/F A   HPA PARALLEL I/F A   WG SWITCH   ETHERNET   RS 232
HPA SERIAL I/F B   HPA PARALLEL I/F B   EXT INTLK REMOTE PCTH   RS 485

xicom TECHNOLOGY   LOCAL   MANUAL   AMPLIFIER A   RESET   A/B   A/B   LAMP TEST   AMPLIFIER B
P/S A   REMOTE   AUTOMATIC   TX A   TX B
P/S B

DIMENSIONS		
	INCHES	CENTIMETERS
W	19.00	48.26
L	10.00	25.40
H	1.75	4.45

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