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AC7000-A043UX1NA

Features

- Design For Digital TV
- LDMOS Power Amplifier
- Broadband (470 860MHz)
- Output RF Power 20 25Watts
- Ultra-linear Design
- RS232/RS485 Interface
- OMT Software
- Squelch Function
- Plug and Play



RF Performance

Operating Frequency Range	470-860MHz	
Input/Output Impedance	50Ω	
Input Signal Range	-10 to 0dBm	
P1dB	>100W typic >150W	
Pout DVB-T 43dBm to 44dBm step 0.1dB		
Shoulder (Without Precorrection)	>36dB@20W >34dB@25W	
Output Power Stability	±0.2dB from 470MHz to 860MHz	
Squelch Switch ON/OFF Threshold	ch Switch ON/OFF Threshold -10dBm <on<0dbm< th=""></on<0dbm<>	
Input Return Loss	>18dB	
Output Return Loss	>22dB	
Monitoring Signal Intensity	Pout(dBm)-34dB/±0.5dB	

Electrical Requirements

Power Supply	100-240V AC 50/60Hz	
Dower Consumption	240W @ 20W RF Output	
Power Consumption	260W @ 25W RF Output	

Environmental

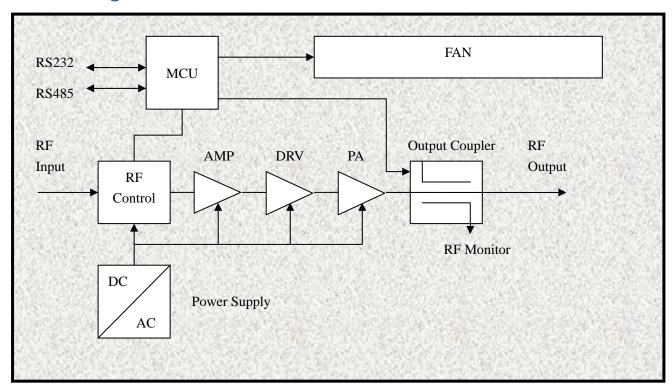
Operating Temperature	0 to +45℃	
Storage Temperature	-25 to 70°C	
Humidity	Up to 90% (Non condensing)	
Cooling	Fan Cooling	



Mechanical data and Interfaces

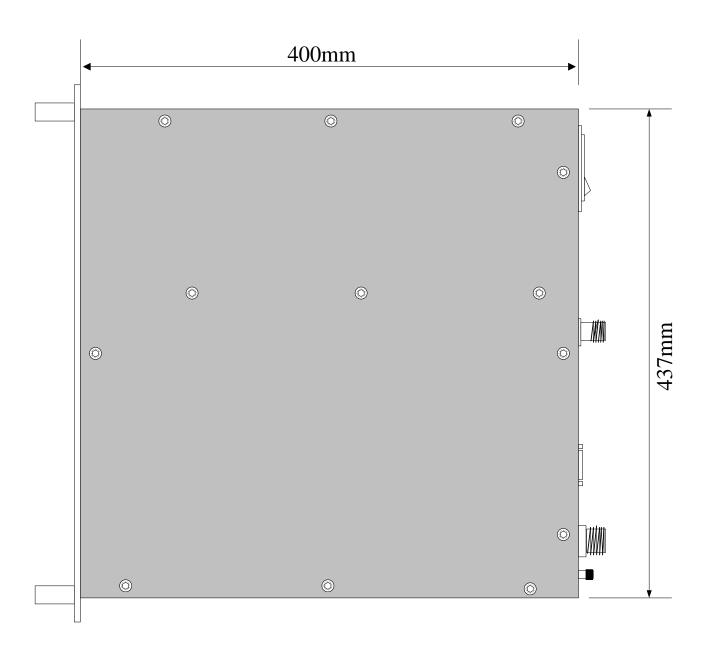
Dimensions	19" 2HU std 400mm depth	
Weight	13Kg	
Main Power	Real panel	
RF Input	t N connector rear panel	
RF Output	N connector rear panel	
RF Monitor	SMA connector rear panel	
RS232	DB9 connector front and rear panel	
RS485	RJ45 (2 parallel) rear panel	
USB	Front panel	
Local Enable/Disable	Switch front panel	
LOCAL ETIADIE/DISADIE	Two-pole connector rear panel	

Block Diagram



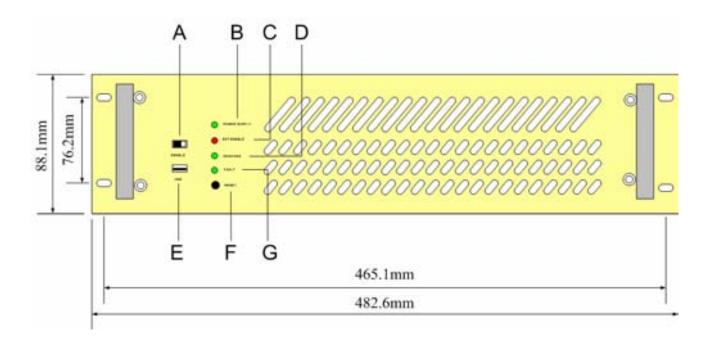
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Top View



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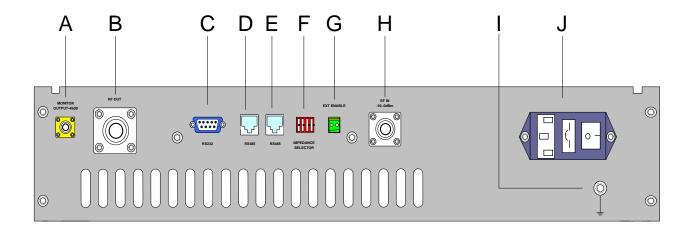
Front Panel



	Interface	Description	
Α	Enable Switch	Switch at the left side, it means Disable; Switch at the right side, it means Enable. The default status is Disable.	
В	LED Power Supply If LED is green, it means power supply is OK; If LED is off, there is power supply failure.		
С	LED Ext Enable If LED is on, it means Enable; If off, it means disable.		
D	LED derating	Output power is too low, though PA still works	
Е	USB	Serial interface USB	
F	Reset	To reset PA	
G	LED Fault	Serious problems with PA	

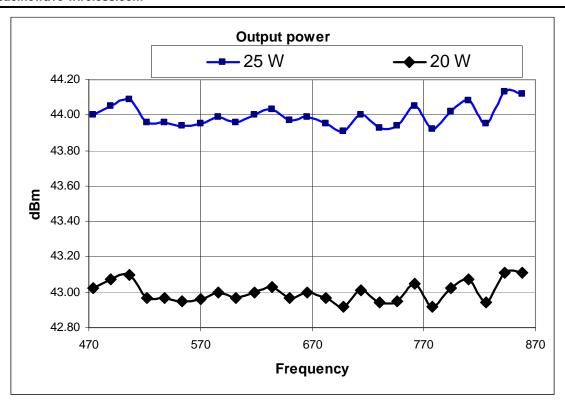
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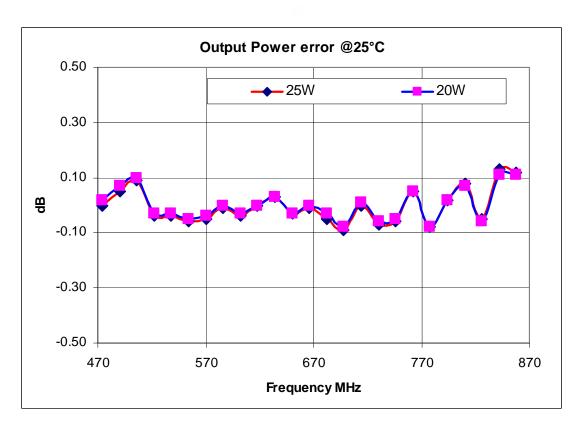
Rear Panel



	Interface		Description		
Α	DE Monitor	The calculation is as follows:			
A	RF Monitor	P	P_{out} - 45dB = RF Monitor P_{out}		
В	RF Out	R	F Output		
С	RS232	S	Serial interface RS232		
D	RS485	S	Serial interface RS485		
E	RS485	S	Serial interface RS485		
F	Impedance selector	1 2	nis interface is used to selected are altogether 4 switch imber. If the switch is put upeans OFF. PA offers 3 options OFF OFF OFF OFF ON OFF ON OFF ON OFF	ches each marked with a p, it means ON; if down, it	
G	EXT Enable	If Enable Switch (in the front panel) is off: EXT Enable does not work; If Enable Switch is on: PA works with EXT Enable connected; PA automatically power off if EXT Enable is disconnected.			
Н	RF In	R	RF input		
I	Ground	Ground connection			
J	AC Input	AC			

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