



The MP940/35/47MK-A8-R3U15 is a high power amplifier for 935 - 960 MHz frequency band. The amplifier system employs LDMOS devices and provides high efficiency, broad band and high dynamic range, protected against over-temperature, over driving, over-power and excessive current draw. It provides remote control function via Ethernet and RS-232 interface for remote access and control. GUI control is provided.



Model: MP940/35/47MK-A8-R3U15

1. Electrical Characteristics

Item	Value	Note
Frequency Range	Tx: 935 ~ 960 MHz	Rx: 880 ~ 915 MHz
Gain	50 dB (Min.)	
Gain Flatness	± 0.5 dB	ALC Mode Over Freq.
Output P1dB	+ 46 dBm (Min.)	
Output Psat	+ 47 dBm (Min.)	
Output IP3	+ 59 dBm (Min.)	2 tones @ +36 dBm per tone, 1 MHz Spacing
ACLR @ 8 Watts Output	-45 dBc @ ± 5 MHz offset from F0 (Max.) (RBW = 30 kHz) -55 dBc @ ± 10 MHz offset from F0 (Max.) (RBW = 30 kHz)	Signal Source: WCDMA: 1FA Test Mode 1: 64 DPCH
Input / Output VSWR	1.5:1 (Max.)	
Harmonics	-45 dBc (Max.)	@ P1dB
Spurious	-70 dBc (Max.)	@ P1dB
HPA Enable/Disable	Via GUI	
ALC Range	> 25 dB	Set by GUI
ALC Accuracy	± 1 dBm	Over Frequency Band
Input Power Monitor	Real Time Monitoring	Via GUI
FWD Power Monitor	Real Time Monitoring	Via GUI
REV Power Monitor	Real Time Monitoring	Via GUI
Max RF Input	+25 dBm	With ALC Control
AC Input	100 – 240 VAC	
Isolation Tx to Rx	-120 dBc (Min.)	
Input / Output Impedance	50 Ω	

2. Mechanical Characteristics

Ethernet Interface	RJ-45	
RS232 Connector	N/A	
RF IN/OUT/Rx Connector	N-Type Female	
Dimensions	19" x 3U x 15"	
Weight	25 lbs	

3. Environment Characteristics

Operating Temperature	-10°C ~ +60°C	Ambient
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4. Firmware Control

Output Power Control	Real-Time Monitor	
Input Over Driving	>25 dBm	Shutdown Protection
Over-Power Protection	Setting	Shutdown Protection
VSWR Protection	Real-Time Monitor	Alarm
Current Monitor	Real-Time Monitor	Alarm
Temperature Monitor	Real-Time Monitor	Shutdown Protection
Operating Voltage	Real-Time Monitor	Shutdown Protection
Fan Current Monitoring	Real-Time Monitor	Alarm

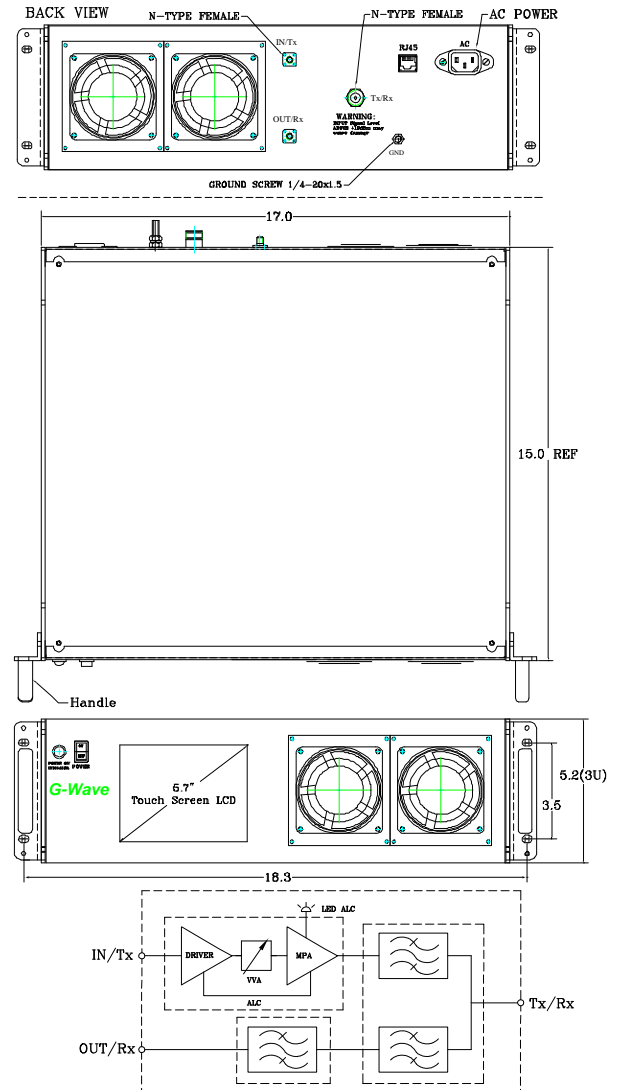
Revision History

REV	Reason to Change	Date	Initialed by

5. DB9-Female Pin Description (N/A)

1	N/C	
2	RS232 Rx	
3	RS232 Tx	
4	N/C	
5	GND	
6, 7, 8, 9	NC	

6. Outline Drawing



Options Included:

(R3U15), (FPPS), (12V1), (N/N), (SNF), (TOUCH), (ETHER), (DPLX)

SKU # 7XXXXXX