

**800 / 1900 MHZ DUAL BAND LINEAR RF COMPENSATOR
MODEL # SYN8486A
USER MANUAL**

1. GENERAL

The 800 / 1900 MHz Dual Band Linear RF Compensator is a bi-directional, dual band RF amplifier. It is used to compensate for signal attenuation in cellular phones due to antenna and cable losses. The device operates in both analog (AMPS) and digital (CDMA & TDMA) modes.

2. ANTENNA INSTALLATION

To meet the FCC's RF Exposure Guidelines, the antenna should be installed so there is at least 20 cm of separation between the body of the user or nearby persons and the antenna.

3. I/O CONNECTION

Portable and antenna port: mini UHF type connectors.

DC input and various control signals: 14-pin male connector.

4. SPECIFICATIONS

Operating Frequency	TX: 824-849 MHz 1850-1910 MHz RX: 869-894 MHz 1930-1990 MHz
Channeling	Single channel
Mode of Transmission	Analog & Digital
Data Source	External
Type of Modulation	AMPS (analog) CDMA (digital) TDMA (digital)
Type of Information	Telephony & Data
Occupied Bandwidth Requirement	AMPS: 30 KHz CDMA: 1.23 MHz TDMA: 30 KHz
Input Power	TX: 25 dBm max RX: 3 dBm max
Output Power	TX: AMPS: 27 dBm CDMA: 27dBm TDMA: 27 dBm RX: 3 dBm

Harmonics & Spurious	FCC, TIA / EIA specifications
Stability	Any RF load condition
DC Supply Voltage	9 to 16.5 V
Current Draw	1.5A max
RF Load VSWR	Full power at better than 2:1 VSWR
Operating Temp:	-30 to 60°C
Storage Temp	-40 to 90°C