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## Dual-Band Power Amplifier for WLAN Systems

The Infineon dual-band Power Amplifier PMB 8825 is an extremely linear, high power SiGe amplifier for Wireless LAN applications and is fully compliant with IEEE802.11a, 11b and 11g standards with data rates up to 54 Mbit/s in 802.11a and 11g mode.

The PMB 8825 is designed to form an Infineon WLAN chipset in combination with the PMB 8680 dual-band RF Transceiver, the PMB 8787 dual-band Modem IC (PHY) and the PMB 8789 MAC IC.



## Features

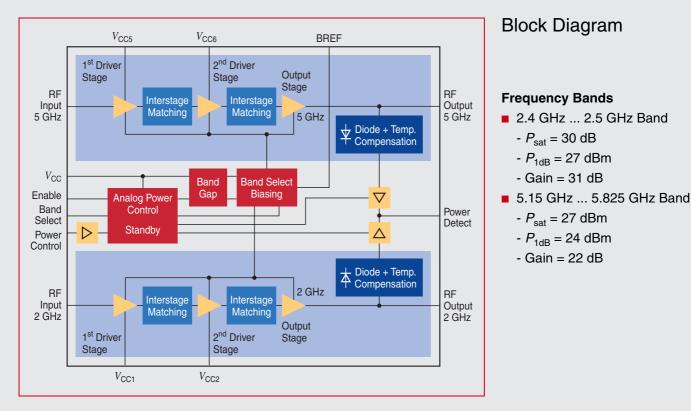
- Enhanced bipolar technology (SiGe)
- Dual-band and dual-mode solution
- Single +3.3 V supply voltage
- Highly linear PA for OFDM and DSSS/CCK
- Low EVM for 64 QAM/54 Mbit/s
- Low power droop
- Analog power control for both bands
- Digital band select (2.4 GHz/5 GHz)
- Digital standby mode
- Integrated power detector with buffer for power control loop
- Operating ambient temperature: -40 ... +85°C
- Small size VQFN-24 package with heat sink

## Applications

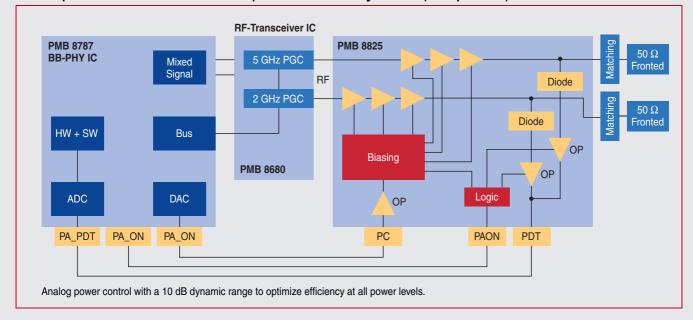
- High data-rate wireless LAN
- PC card wireless LAN adapters
- (Mini) PCI wireless LAN cards
- CardBus wireless LAN adapters
- Compact flash wireless LAN cards
- USB wireless LAN adapters
- Wireless LAN modules, access points, bridge products, and point-to-multipoint systems

# PMB 8825 Dual-Band Power Amplifier





## Example: Power Control Loop for WLAN System (simplified)



Туре	Sales Code	Package
WLAN Power Amplifier	PMB 8825	P-VQFN-24

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Infineon Technologies is an approved CECC manufacturer.

#### Information

For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office in Germany or our Infineon Technologies Representatives worldwide.

#### Warnings

Due to technical requirements components may contain dan-gerous substances. For information on the types in question please contact your nearest Infineon Technologies Office.

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