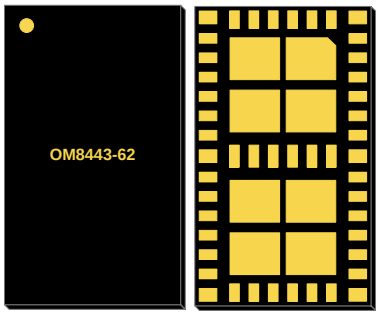
OM8443-62

Datasheet v1.3

Multimode Multiband (MMMB) Power Amplifier (PA)

Product Features

- Two T/R (RX) ports and 14 outputs
- Dual Low Band RF inputs support separate transceiver outputs or interstage filtering
- Industry-leading PAE for 3G/4G
- Optimized for APT DCDC operation
- Fully programmable Mobile Industry Processor Interface (MIPI) control
- MIPI programmable bias modes optimize best efficiency / linearity trade-off for 3G and 4G; minimizes DG09 for 3G.
- Small package: 4.0 mm × 6.8 mm × 0.72 mm, LGA 42 pad configuration



Applications

Multiband 3G / LTE handsets	
WCDMA Bands	I, II, III, IV, V, VIII, IX
TD-SCDMA Bands	34, 39
FDD LTE Bands	1, 2, 3, 4, 5, 7, 8, 9, 12, 13, 17, 20, 25, 26, 28, 30, 71
TDD LTE Bands	34, 38, 39, 40, 41
CDMA2000 Bands	BC0, BC1, BC4, BC6, BC010, BC015

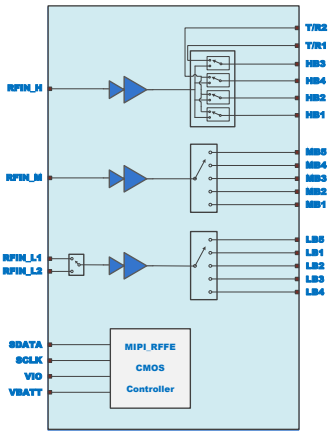


Figure 1 Functional Block Diagram.

Product Description

OM8443-62 is a hybrid multimode multiband (MMMB) Power Amplifier Module (PAM) that supports 3G/4G handsets and operates efficiently in CDMA, WCDMA, TD-SCDMA, and LTE modes. The module is fully programmable through a Mobile Industry Processor Interface (MIPI).

The PAM consists of a 3G/4G PA blocks for low, high, and mid-bands, and a Multi-Function Control (MFC) block, RF input/output ports internally matched to 50 ohm to reduce the number of external components. A CMOS integrated circuit uses standard MIPI controls to provide the internal MFC interface and operation. Extremely low leakage current maximizes handset standby time. The devices packaged in a small LGA package. (4.0 mm x 6.8 mm x 0.72 mm)