

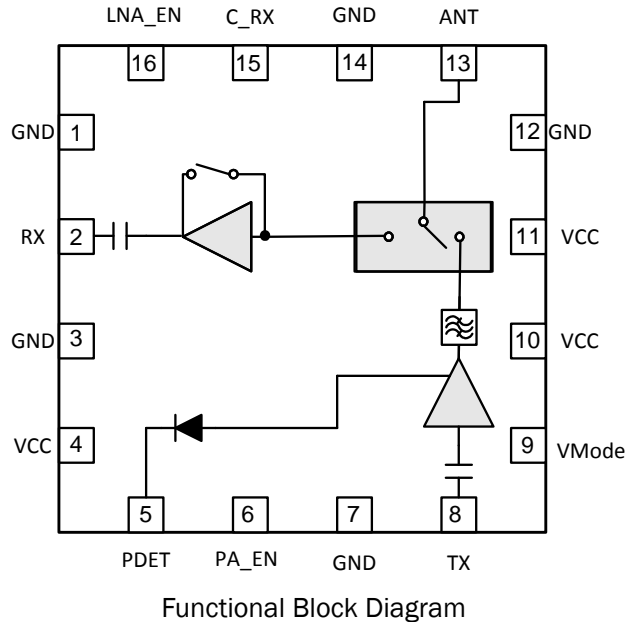


**Features**

- P<sub>OUT</sub> = 18dBm, 11ac 80MHz  
1.5% (-36.5dB) EVM
- P<sub>OUT</sub> = 19.5dBm, 11n 40MHz  
2.5% (-32dB) EVM
- Small Size
- High performance FEM
- Input and Output Matched to 50Ω.
- Integrated 5GHz PA, SP2T, Switch, LNA, and PDET
- Low Height Package, Suited for SiP and CoB designs

**Applications**

- Cellular Handsets
- Mobile Devices
- Tablets
- Consumer Electronics
- Gaming
- Netbooks/Notebooks
- TV/Monitors/Video



**Product Description**

The RFFM8505 provides a complete integrated solution in a single front end module (FEM) for WiFi 802.11a/n/ac systems. The ultra-small factor and integrated matching minimizes layout area in the customer’s application and greatly reduces the number of external components. This simplifies the total front end solution by reducing the bill of materials, system footprint, and manufacturing cost. The RFFM8505 integrates a 5GHz power amplifier (PA), single pole double throw switch (SP2T), LNA with bypass, and a power detector coupler for improved accuracy. The device is provided in a 2.5mm x 2.5mm x 0.40mm, 16-pin QFN package. This module meets or exceeds the RF front end needs of IEEE 802.11a/n/ac WiFi RF systems.

**Ordering Information**

RFFM8505SB	Standard 5-piece sample bag
RFFM8505SQ	Standard 25-piece sample bag
RFFM8505SR	Standard 100-piece reel
RFFM8505TR7	Standard 2500-piece reel
RFFM8505PCK-410	Fully assembled evaluation board with 5-piece bag

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**Please contact  
RFMD Technical Support  
at (336) 678-5570  
for more information.**