

# Wi-Fi Equipment Front-End Solutions

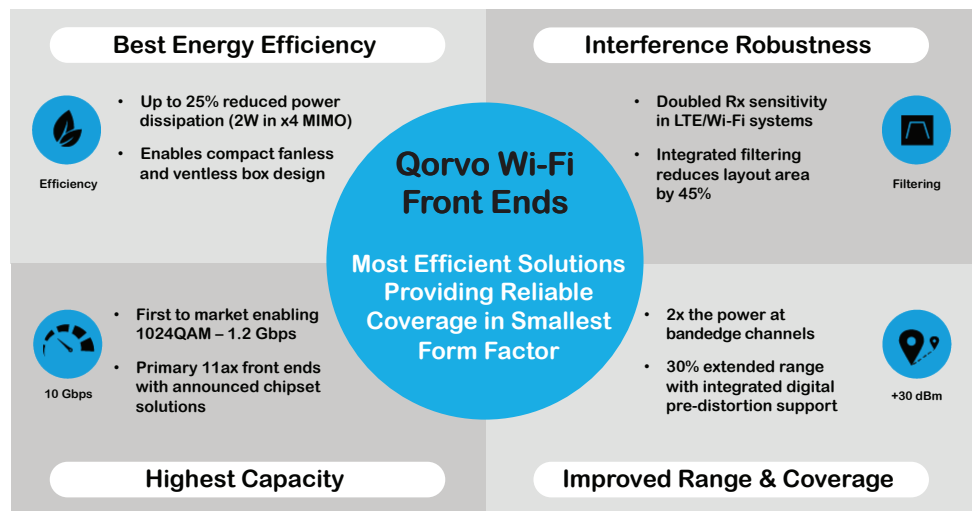
High Linearity and Low Power Consumption Devices for Wi-Fi Applications

**qorvo**  
all around you



# Leveraging Qorvo Technologies for Wi-Fi 6 (802.11ax)

Qorvo® continuously develops a portfolio of leading products for Wi-Fi, always following the newest standards. Products include customer premises equipment (CPE), enterprise systems and Internet of Things (IoT) applications. We capitalize on our front-end differentiators and focus on reduced power consumption and interference resolution while maintaining high throughput and excellent range. We create the most efficient solutions providing reliable coverage in the smallest form factor.

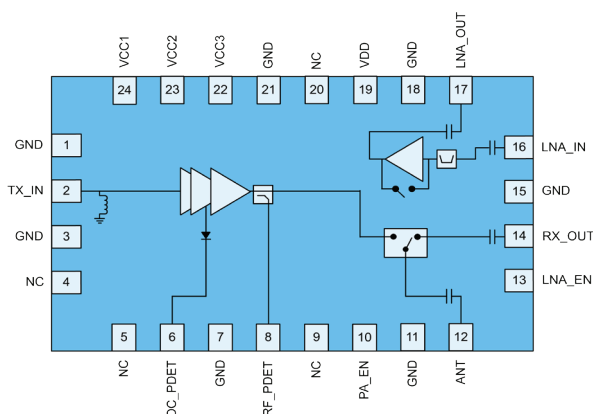


## Wi-Fi 6 (11ax Solutions)

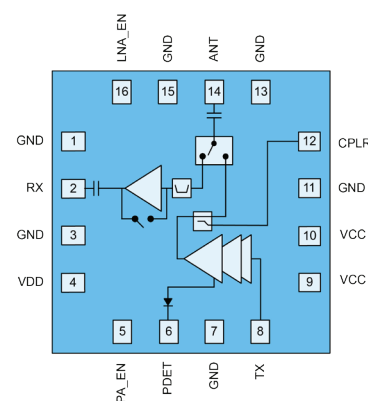
Qorvo enables Wi-Fi 6 applications to achieve up to 8x8 MU-MIMO in both conventional and power over ethernet (PoE) systems.

### 5 GHz

| Functions      | V <sub>CC</sub> (V) | MCS11 -47dB P <sub>OUT</sub> (dBm) | MCS11 I <sub>CC</sub> (mA) | MCS11 P <sub>DISS</sub> (W) | MCS11 -43dB P <sub>OUT</sub> (dBm) | MCS11 I <sub>CC</sub> (mA) | MCS9 -35dB P <sub>OUT</sub> (dBm) | MCS9 I <sub>CC</sub> (mA) | MCS7 -30dB P <sub>OUT</sub> (dBm) | MCS7 I <sub>CC</sub> (mA) | MCS0 P <sub>OUT</sub> (dBm) | Tx Gain (dB) | Noise Figure (dB) | Rx Gain (dB) | Bypass Loss (dB) | 2.4 GHz Rej (dB) | Size (mm) | Part Number |
|----------------|---------------------|------------------------------------|----------------------------|-----------------------------|------------------------------------|----------------------------|-----------------------------------|---------------------------|-----------------------------------|---------------------------|-----------------------------|--------------|-------------------|--------------|------------------|------------------|-----------|-------------|
| PA+SW+LNA+CPLR | 5                   | 16                                 | 195                        | 0.98                        | 18                                 | 215                        | 23                                | 290                       | 24                                | 320                       | 26                          | 33           | 2                 | 16           | 7                | 30               | 5 x 3     | QPF4588     |
| PA+SW+LNA+CPLR | 3.3                 | 12.5                               | 120                        | 0.40                        | 15                                 | 135                        | 18                                | 155                       | 19                                | 165                       | 21                          | 30           | 2                 | 15           | 7                | 35               | 3 x 3     | QPF4528     |



QPF4588



QPF4528

### 2.4 GHz

| Functions      | V <sub>CC</sub> (V) | MCS11 -47dB P <sub>OUT</sub> (dBm) | MCS11 I <sub>CC</sub> (mA) | MCS11 P <sub>DISS</sub> (W) | MCS11 -43dB P <sub>OUT</sub> (dBm) | MCS11 I <sub>CC</sub> (mA) | MCS9 -35dB P <sub>OUT</sub> (dBm) | MCS9 I <sub>CC</sub> (mA) | MCS7 -30dB P <sub>OUT</sub> (dBm) | MCS7 I <sub>CC</sub> (mA) | MCS0 P <sub>OUT</sub> (dBm) | Tx Gain (dB) | Noise Figure (dB) | Rx Gain (dB) | Bypass Loss (dB) | 5 GHz Rej (dB) | Size (mm) | Part Number |
|----------------|---------------------|------------------------------------|----------------------------|-----------------------------|------------------------------------|----------------------------|-----------------------------------|---------------------------|-----------------------------------|---------------------------|-----------------------------|--------------|-------------------|--------------|------------------|----------------|-----------|-------------|
| PA+SW+LNA+CPLR | 5                   | 16                                 | 235                        | 1.18                        | 19                                 | 275                        | 24.5                              | 375                       | 26                                | 450                       | 28                          | 33           | 1.8               | 15.5         | 7.5              | 11             | 5 x 3     | QPF4288     |
| PA+SW+LNA+CPLR | 3.3                 | 13                                 | 110                        | 0.36                        | 14                                 | 120                        | 17                                | 140                       | 18                                | 150                       | 21                          | 33           | 2.2               | 15           | 7                | 15             | 3 x 3     | QPF4228     |

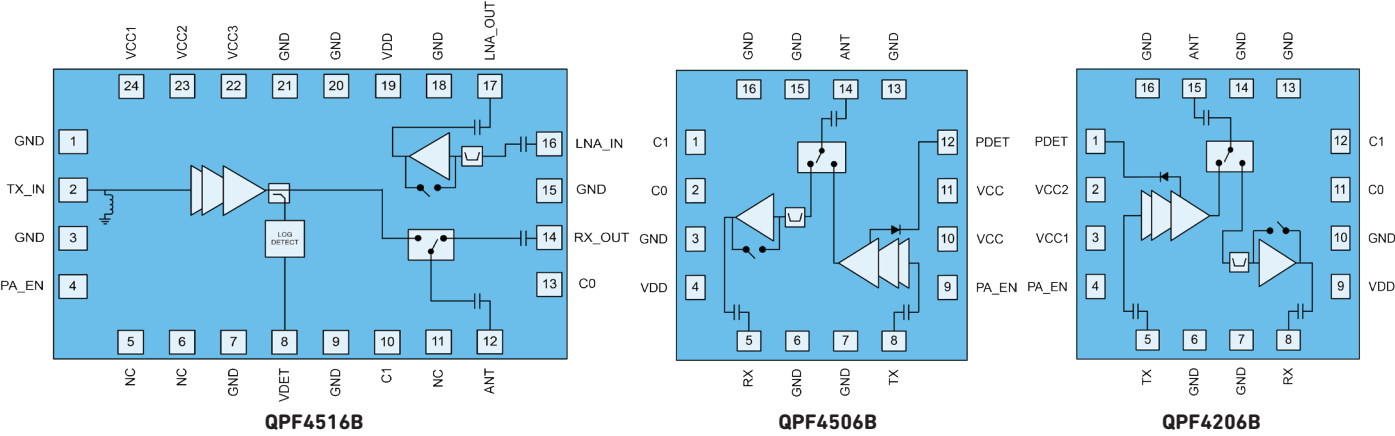
Enabling 160 MHz channels for 4x4 MIMO Wi-Fi 6 systems.

5 GHz

| Functions | V <sub>CC</sub> (V) | MCS11<br>-43dB<br>P <sub>OUT</sub> (dBm) | MCS9<br>I <sub>CC</sub> (mA) | P <sub>DISS</sub> (W) | MCS9<br>-35dB<br>P <sub>OUT</sub> (dBm) | MCS9<br>I <sub>CC</sub> (mA) | MCS7<br>-30dB<br>P <sub>OUT</sub> (dBm) | MCS7<br>I <sub>CC</sub> (mA) | MCS0<br>P <sub>OUT</sub> (dBm) | Tx<br>Gain (dB) | Noise<br>Figure (dB) | Rx<br>Gain (dB) | Bypass<br>Loss (dB) | 2.4 GHz<br>Rej (dB) | Size (mm) | Part<br>Number |
|-----------|---------------------|------------------------------------------|------------------------------|-----------------------|-----------------------------------------|------------------------------|-----------------------------------------|------------------------------|--------------------------------|-----------------|----------------------|-----------------|---------------------|---------------------|-----------|----------------|
| PA+SW+LNA | 5                   | 17                                       | 200                          | 1.00                  | 23                                      | 280                          | 24.5                                    | 320                          | 27                             | 32              | 2                    | 15              | 6                   | 30                  | 5 x 3     | QPF4516B       |
| PA+SW+LNA | 5                   | 16                                       | 150                          | 0.75                  | 21                                      | 190                          | 23                                      | 215                          | 25                             | 30              | 1.7                  | 13.5            | 6                   | 28                  | 3 x 3     | QPF4506B       |

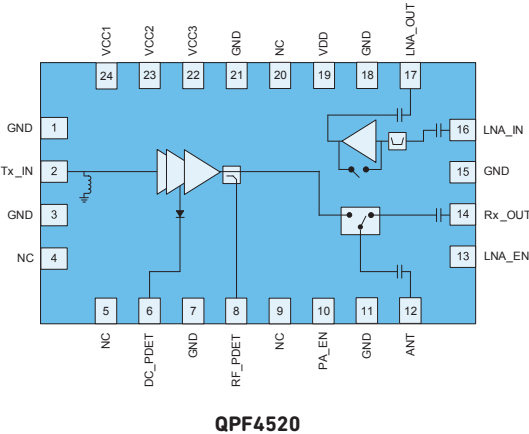
2.4 GHz

| Functions | V <sub>CC</sub> (V) | MCS11<br>-43dB<br>P <sub>OUT</sub> (dBm) | MCS9<br>I <sub>CC</sub> (mA) | P <sub>DISS</sub> (W) | MCS9<br>-35dB<br>P <sub>OUT</sub> (dBm) | MCS9<br>I <sub>CC</sub> (mA) | MCS7<br>-30dB<br>P <sub>OUT</sub> (dBm) | MCS7<br>I <sub>CC</sub> (mA) | MCS0<br>P <sub>OUT</sub> (dBm) | Tx<br>Gain (dB) | Noise<br>Figure (dB) | Rx<br>Gain (dB) | Bypass<br>Loss (dB) | 5 GHz<br>Rej (dB) | Size (mm) | Part<br>Number |
|-----------|---------------------|------------------------------------------|------------------------------|-----------------------|-----------------------------------------|------------------------------|-----------------------------------------|------------------------------|--------------------------------|-----------------|----------------------|-----------------|---------------------|-------------------|-----------|----------------|
| PA+SW+LNA | 5                   | 21.5                                     | 280                          | 1.4                   | 24                                      | 345                          | 25                                      | 365                          | 26                             | 32              | 1.8                  | 16              | 7.5                 | 20                | 5 x 3     | QPF4216B       |
| PA+SW+LNA | 5                   | 19                                       | 230                          | 1.15                  | 21                                      | 260                          | 22.5                                    | 280                          | 25                             | 33              | 2.1                  | 15              | 6                   | 25                | 3 x 3     | QPF4206B       |



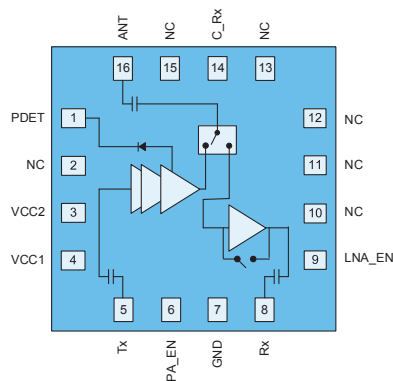
5 GHz

| Functions | V <sub>CC</sub> (V) | MCS11<br>-43dB<br>P <sub>OUT</sub> (dBm) | MCS9<br>I <sub>CC</sub> (mA) | P <sub>DISS</sub> (W) | MCS9<br>-35dB<br>P <sub>OUT</sub> (dBm) | MCS9<br>I <sub>CC</sub> (mA) | MCS7<br>-30dB<br>P <sub>OUT</sub> (dBm) | MCS7<br>I <sub>CC</sub> (mA) | MCS0<br>P <sub>OUT</sub> (dBm) | Tx<br>Gain (dB) | Noise<br>Figure (dB) | Rx<br>Gain (dB) | Bypass<br>Loss (dB) | 2.4 GHz<br>Rej (dB) | Size (mm) | Part<br>Number |
|-----------|---------------------|------------------------------------------|------------------------------|-----------------------|-----------------------------------------|------------------------------|-----------------------------------------|------------------------------|--------------------------------|-----------------|----------------------|-----------------|---------------------|---------------------|-----------|----------------|
| PA+SW+LNA | 5                   | 17                                       | 200                          | 1.00                  | 23                                      | 280                          | 24.5                                    | 320                          | 27                             | 32              | 2                    | 15              | 6                   | 30                  | 5 x 3     | QPF4520        |
| PA+SW+LNA | 5                   | 17                                       | 165                          | 0.83                  | 21                                      | 210                          | 22                                      | 220                          | 25                             | 31              | 2.1                  | 15              | 7.5                 | 20                  | 2.5 x 2.5 | QPF4550        |
| PA+SW+LNA | 3.3                 | 15                                       | 135                          | 0.45                  | 17                                      | 155                          | 19                                      | 165                          | 21                             | 30              | 2                    | 15              | 7                   | 35                  | 3 x 3     | QPF4530        |

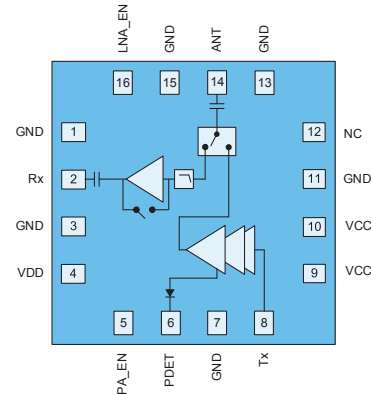


## 2.4 GHz

|           |                        | MCS11<br>-43dB            | MCS9                    |                          | MCS9<br>-35dB             | MCS9                    | MCS7<br>-30dB             | MCS7                    | MCS0                      | Tx           | Noise          | Rx           | Bypass       | 2.4 GHz     | Size  | Part    |
|-----------|------------------------|---------------------------|-------------------------|--------------------------|---------------------------|-------------------------|---------------------------|-------------------------|---------------------------|--------------|----------------|--------------|--------------|-------------|-------|---------|
| Functions | V <sub>CC</sub><br>(V) | P <sub>OUT</sub><br>(dBm) | I <sub>CC</sub><br>(mA) | P <sub>DISS</sub><br>(W) | P <sub>OUT</sub><br>(dBm) | I <sub>CC</sub><br>(mA) | P <sub>OUT</sub><br>(dBm) | I <sub>CC</sub><br>(mA) | P <sub>OUT</sub><br>(dBm) | Gain<br>(dB) | Figure<br>(dB) | Gain<br>(dB) | Loss<br>(dB) | Rej<br>(dB) | (mm)  | Number  |
| PA+SW+LNA | 5                      | 21.5                      | 280                     | 1.4                      | 24                        | 345                     | 25                        | 365                     | 26                        | 32           | 1.8            | 16           | 7.5          | 20          | 5 x 3 | QPF4220 |
| PA+SW+LNA | 5                      | 19                        | 230                     | 1.15                     | 21                        | 260                     | 22.5                      | 280                     | 25                        | 33           | 2.1            | 15.5         | 6            | 25          | 3 x 3 | QPF4200 |
| PA+SW+LNA | 3.3                    | 14                        | 120                     | 0.4                      | 17                        | 140                     | 18                        | 150                     | 21                        | 33           | 2.2            | 15           | 7            | 15          | 3 x 3 | QPF4230 |



**QPF4200**



**QPF4230  
QPF4530**

## BAW Filtering Solutions

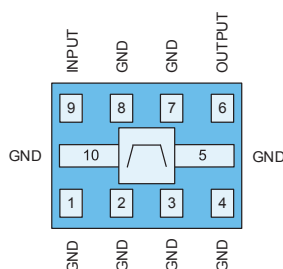
Qorvo creates the most efficient RF solutions providing reliable coverage in the smallest form factor.

### 2 GHz Bandedge Filtering

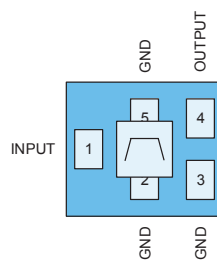
| Function             | Wi-Fi<br>Channels | Insertion<br>Loss<br>(dB) | 2370-2390 MHz<br>(dB) | Attenuation<br>2483.5-2500 MHz<br>(dB) | 2500-2520 MHz<br>(dB) | Size<br>(mm) | Part<br>Number |
|----------------------|-------------------|---------------------------|-----------------------|----------------------------------------|-----------------------|--------------|----------------|
| 2.4 GHz FCC Bandedge | 1-11              | 0.8                       | 31                    | 24                                     | 25                    | 1.1 x 0.9    | 885136         |
| 2.4 GHz FCC Bandedge | 1-11              | 0.8                       | 19                    | 24                                     | 38                    | 1.7 x 1.3    | 885070         |
| 2.4 GHz EU Bandedge  | 1-12              | 0.8                       | 19                    | 20                                     | 33                    | 1.7 x 1.3    | 885135         |

### Wi-Fi/LTE Coexistence Filtering

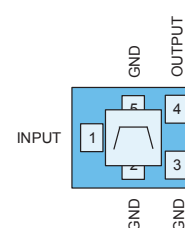
| Function                        | Wi-Fi<br>Channels | Insertion<br>Loss<br>(dB) | 2300-2370<br>MHz<br>(dB) | 2370-2375<br>MHz<br>(dB) | Attenuation<br>2375-2380<br>MHz<br>(dB) | 2500-2505<br>MHz<br>(dB) | 2505-2570<br>MHz<br>(dB) | Size<br>(mm) | Part<br>Number |
|---------------------------------|-------------------|---------------------------|--------------------------|--------------------------|-----------------------------------------|--------------------------|--------------------------|--------------|----------------|
| 2.4 GHz Wi-Fi/BT to LTE CoExist | 1-13              | 1.0                       | 41                       | -                        | -                                       | 36                       | 61                       | 1.4 x 1.2    | QPQ1907        |
| 2.4 GHz Wi-Fi/BT to LTE CoExist | 1-13              | 1.1                       | 39                       | -                        | -                                       | 41                       | 55                       | 1.1 x 0.9    | 885128         |
| 2.4 GHz Wi-Fi/BT to LTE CoExist | 1-13              | 1.5                       | 53                       | 61                       | 49                                      | 41                       | 55                       | 1.4 x 1.2    | 885062         |
| 2.4 GHz Wi-Fi/BT to LTE CoExist | 1-13              | 1.5                       | 53                       | -                        | -                                       | 57                       | 54                       | 1.4 x 1.2    | 885071         |



**885070**



**QPQ1907**



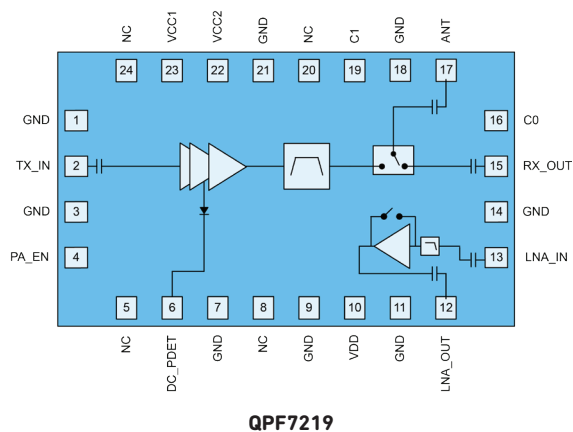
**885136**

## Integrated Front-End Modules (iFEM)

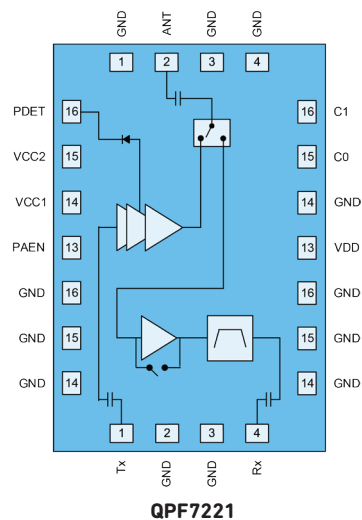
Using Qorvo Wi-Fi BAW filtering, customers can achieve regulatory bandedge compliance at higher power levels across all channels. This enables applications to maximize range, opt to work at lower power levels and reduce the number of MIMO chains needed to achieve maximum allowed power.

Joining Qorvo active technologies with Qorvo BAW.

| Functions                           | Std     | V <sub>CC</sub> (V) | MCS11<br>P <sub>OUT</sub> (dBm) | MCS11<br>I <sub>CC</sub> (mA) | MCS11<br>P <sub>DISS</sub> (W) | MCS9<br>P <sub>OUT</sub> (dBm) | MCS9<br>I <sub>CC</sub> (mA) | MCS7<br>P <sub>OUT</sub> (dBm) | MCS7<br>I <sub>CC</sub> (mA) | MCS0<br>P <sub>OUT</sub> (dBm) | Tx<br>Gain (dB) | Noise<br>Figure (dB) | Rx<br>Gain (dB) | Bypass<br>Loss (dB) | 5 GHz<br>Rej (dB) | Size (mm) | Part<br>Number |
|-------------------------------------|---------|---------------------|---------------------------------|-------------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|------------------------------|--------------------------------|-----------------|----------------------|-----------------|---------------------|-------------------|-----------|----------------|
| PA+FCC BE FLTR+SW+LNA               | Wi-Fi 6 | 5                   | 18.5                            | 225                           | 1.12                           | 22                             | 350                          | 23                             | 370                          | 25                             | 31              | 2                    | 15              | 6                   | 20                | 5 x 3     | QPF7219        |
| PA+SW+LNA+LTE COEX FLTR             | Wi-Fi 6 | 5                   | 18                              | 240                           | 1.2                            | 21                             | 280                          | 22                             | 320                          | 24                             | 34              | 2.2                  | 15              | 10.5                | >35               | 3 x 4.5   | QPF7221        |
| PA+FCC BE FLTR+SW+LNA+LTE COEX FLTR | Wi-Fi 4 | 5                   | —                               | —                             | —                              | Wi-Fi CH1-11<br>Wi-Fi CH12-13  |                              | 25                             | 650                          | 25                             | 37              | 2                    | 12              | 8                   | >30               | 8 x 5.5   | QPF7200        |
|                                     |         |                     |                                 |                               |                                |                                |                              | 20                             | 435                          | 20                             | 38              |                      |                 |                     |                   |           |                |



QPF7219

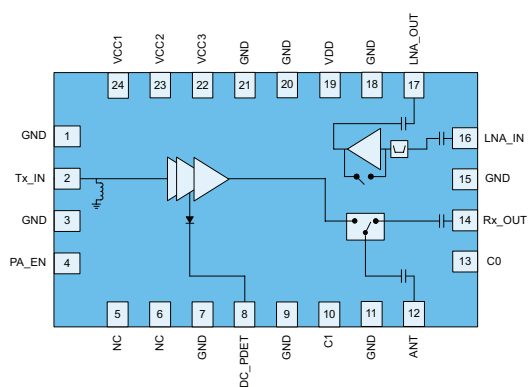


QPF7221

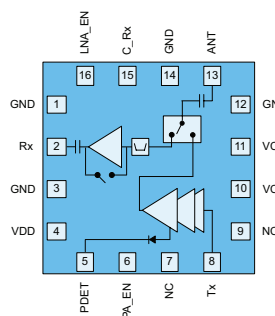
## Wi-Fi 5 & Prior Front-End Solutions

### 5 GHz Front-End Modules

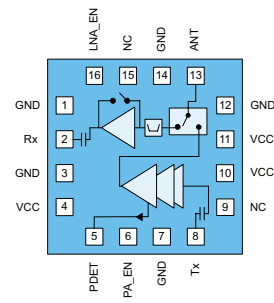
| Functions          | Std     | V <sub>CC</sub><br>(V) | MCS9<br>P <sub>OUT</sub><br>(dBm) | MCS9<br>I <sub>CC</sub><br>(mA) | MCS9<br>P <sub>DISS</sub><br>(W) | MCS7<br>P <sub>OUT</sub><br>(dBm) | MCS7<br>I <sub>CC</sub><br>(mA) | MCS0<br>P <sub>OUT</sub><br>(dBm) | Tx<br>Gain<br>(dB) | Noise<br>Figure<br>(dB) | Rx<br>Gain<br>(dB) | Bypass<br>Loss<br>(dB) | 2.4 GHz<br>Rej<br>(dB) | Size<br>(mm) | Part<br>Number |
|--------------------|---------|------------------------|-----------------------------------|---------------------------------|----------------------------------|-----------------------------------|---------------------------------|-----------------------------------|--------------------|-------------------------|--------------------|------------------------|------------------------|--------------|----------------|
| PA+SW+LNA          | Wi-Fi 5 | 5                      | 23                                | 280                             | 1.40                             | 24.5                              | 320                             | 27                                | 32                 | 2                       | 16                 | 6.5                    | 25                     | 5 x 3        | QPF4519        |
| PA+SW+<br>LNA+CPLR | Wi-Fi 5 | 5                      | 23                                | 280                             | 1.40                             | 24.5                              | 320                             | 27                                | 32                 | 2                       | 16                 | 6.5                    | 25                     | 5 x 3        | QPF4518        |
| PA+SW+<br>LNA+CPLR | Wi-Fi 5 | 5                      | 23                                | 280                             | 1.40                             | 24.5                              | 320                             | 27                                | 32                 | 2                       | 16                 | 6.5                    | 25                     | 5 x 3        | QPF4518M       |
| PA+SW+<br>LNA+CPLR | Wi-Fi 6 | 3.3                    | 21                                | 285                             | 0.94                             | 22.5                              | 320                             | 24                                | 31                 | 1.9                     | 15                 | 6.5                    | 35                     | 5 x 3        | QPF4578        |
| PA+SW+LNA          | Wi-Fi 5 | 5                      | 20.5                              | 179                             | 0.90                             | 21                                | 180                             | 24                                | 32                 | 2.5                     | 14                 | 5                      | 15                     | 2.5 x 2.5    | RFFM4558       |
| PA+SW+LNA          | Wi-Fi 5 | 5                      | 20                                | 175                             | 0.88                             | 21                                | 185                             | 24                                | 32                 | 2.3                     | 14                 | 5                      | 15                     | 3 x 3        | RFFM4552       |
| PA+SW+LNA          | Wi-Fi 6 | 3.3                    | 18                                | 155                             | 0.51                             | 19                                | 165                             | 21                                | 30                 | 2                       | 15                 | 7                      | 35                     | 3 x 3        | QPF4530        |
| PA+SW+LNA          | Wi-Fi 5 | 3.3                    | 17.5                              | 155                             | 0.51                             | 18.5                              | 165                             | 21                                | 30                 | 2.5                     | 14.5               | 6                      | 15                     | 2.5 x 2.5    | QPF4538        |
| PA+SW+LNA          | Wi-Fi 5 | 3.3                    | 17                                | 210                             | 0.69                             | 18                                | 215                             | 21                                | 28                 | 2.5                     | 12.5               | 5                      | 45                     | 2.3 x 2.3    | QPF8538        |
| PA+SW+LNA          | Wi-Fi 5 | 3.3                    | 17                                | 260                             | 0.86                             | 18                                | 290                             | 21                                | 30                 | 2.5                     | 14                 | 6                      | 15                     | 3 x 3        | RFFM4551       |
| PA+SW+LNA          | Wi-Fi 5 | 3.3                    | 17.5                              | 225                             | 0.74                             | 19                                | 250                             | 20                                | 28                 | 2.5                     | 13                 | 3                      | –                      | 2.3 x 2.3    | RFFM8528P      |
| PA+SW+LNA          | Wi-Fi 5 | 3.3                    | 18                                | 230                             | 0.76                             | 19.5                              | 275                             | 21                                | 28                 | 2.5                     | 12                 | 8                      | –                      | 3 x 3        | RFFM4501F      |
| PA+SW+LNA          | Wi-Fi 5 | 3.3                    | 17                                | 240                             | 0.79                             | 18                                | 280                             | 20                                | 28                 | 2.5                     | 12.5               | 8                      | –                      | 3 x 3        | RFFM4501E      |
| PA+SW+LNA          | Wi-Fi 4 | –                      | –                                 | –                               | –                                | 17                                | 225                             | 20                                | 27                 | 2.5                     | 12.5               | 8                      | –                      | 3 x 3        | RFFM4501       |
| PA+SW+LNA          | Wi-Fi 4 | –                      | –                                 | –                               | –                                | 21                                | 290                             | 23                                | 27                 | 2.5                     | 12.5               | 8                      | –                      | 3 x 3        | RFFM4501       |
| PA+SW+LNA          | Wi-Fi 5 | 3.6                    | 18                                | 225                             | 0.81                             | 19                                | 240                             | 21                                | 28                 | 2.5                     | 14                 | 6                      | –                      | 2.5 x 2.5    | RFFM8511       |
| PA+SW+LNA          | Wi-Fi 5 | 3.6                    | 17.5                              | 230                             | 0.83                             | 19.5                              | 260                             | 21                                | 28                 | 2.5                     | 12                 | 8                      | –                      | 2.5 x 2.5    | RFFM8505       |



QPF4519



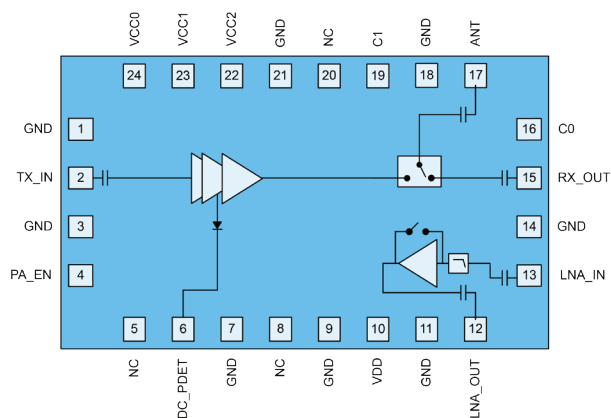
RFFM4558



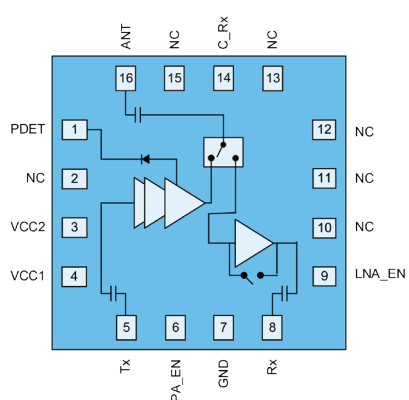
QPF8538

## 2.4 GHz Front-End Modules

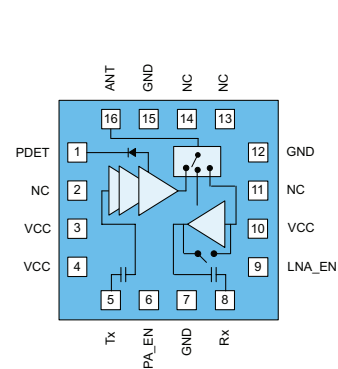
| Functions    | Std     | V <sub>CC</sub><br>(V) | MCS9-<br>35dB             | MCS9                    | P <sub>DISS</sub><br>(W) | MCS7-<br>30dB             | MCS7                    | MCS0                      | Tx<br>Gain<br>(dB) | Noise<br>Figure<br>(dB) | Rx<br>Gain<br>(dB) | Bypass<br>Loss<br>(dB) | 5 GHz<br>Rej<br>(dB) | Size<br>(mm) | Part<br>Number |
|--------------|---------|------------------------|---------------------------|-------------------------|--------------------------|---------------------------|-------------------------|---------------------------|--------------------|-------------------------|--------------------|------------------------|----------------------|--------------|----------------|
|              |         |                        | P <sub>OUT</sub><br>(dBm) | I <sub>CC</sub><br>(mA) |                          | P <sub>OUT</sub><br>(dBm) | I <sub>CC</sub><br>(mA) | P <sub>OUT</sub><br>(dBm) |                    |                         |                    |                        |                      |              |                |
| PA+SW+LNA    | Wi-Fi 5 | 5                      | 24.5                      | 360                     | 1.8                      | 25.5                      | 375                     | 27                        | 33                 | 1.8                     | 16                 | 7                      | 19                   | 5 x 3        | QPF4219        |
| PA+SW+LNA    | Wi-Fi 6 | 5                      | 21                        | 255                     | 1.28                     | 22.5                      | 275                     | 25                        | 33                 | 2.1                     | 15                 | 6                      | 25                   | 3 x 3        | QPF4200        |
| PA+SP3T+LNA  | Wi-Fi 5 | 5                      | 21                        | 230                     | 1.15                     | 22                        | 250                     | 24                        | 29                 | 2.5                     | 15                 | 7                      | 13                   | 3 x 3        | RFFM4252       |
| PA+SP3T+LNA  | Wi-Fi 5 | 3.3                    | 18.5                      | 220                     | 0.73                     | 20                        | 235                     | 22                        | 29                 | 2.5                     | 15                 | 7                      | 13                   | 3 x 3        | RFFM4251       |
| PA+SW+LNA    | Wi-Fi 6 | 3.3                    | 17                        | 145                     | 0.48                     | 18                        | 150                     | 21                        | 33                 | 2.2                     | 14                 | 7                      | 12                   | 3 x 3        | QPF4230        |
| PA+SP3T+LNA  | Wi-Fi 4 | 3.3                    | –                         | –                       | –                        | 19                        | 230                     | 21                        | 27                 | 2.3                     | 13                 | 7.5                    | 10                   | 3 x 3        | RFFM4203       |
|              |         | 5                      | –                         | –                       | –                        | 21.5                      | 260                     | 23                        |                    |                         |                    |                        |                      |              |                |
| PA+SW+LNA+SW | Wi-Fi 5 | 3.3                    | 17.5                      | 190                     | 0.63                     | 19                        | 205                     | 22                        | 29                 | 2                       | 13                 | 5                      | 9.5                  | 2.3 x 2.3    | QPF8248        |
| PA+SW+LNA+SW | Wi-Fi 5 | 3.3                    | 18                        | 195                     | 0.64                     | 19                        | 205                     | 22                        | 28                 | 2.4                     | 15                 | 1.5                    | –                    | 2.3 x 2.3    | RFFM8228P      |
| PA+SP3T+LNA  | Wi-Fi 4 | 3.6                    | –                         | –                       | –                        | 20                        | 195                     | 21                        | 27                 | 2.5                     | 12                 | 6                      | 10                   | 2.5 x 2.5    | RFFM8211       |



QPF4219



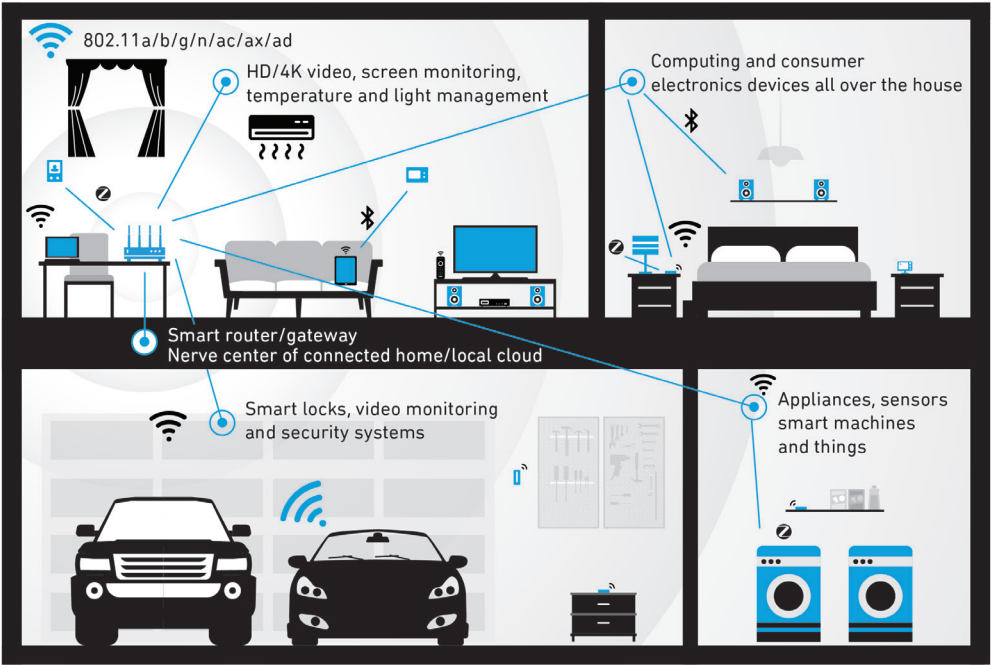
QPF4200



QPF8248

# Distributed Wi-Fi for the Smart Home

Distributed Wi-Fi, or Wi-Fi Mesh, allows full home coverage. A single pod positioned in each room increases Wi-Fi range and capacity, and also relays for other IoT wireless communication standards.



Qorvo is the only Wi-Fi front-end provider that designs and manufactures advanced filtering solutions along with multi-protocol SoC and transceiver solutions for BLE/Thread/Zigbee – providing full system expertise for the converged IoT market evolution. Qorvo’s ultra lower-power future proof IoT controllers enable the radio technology in many of the latest smart home and IoT solutions.



## QPG70XX

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Application             | Smart Home Gateways                                                       |
| Protocols               | 802.15.4, Zigbee 3.0, Zigbee RF4CE, Zigbee GreenPower, OpenThread, BLE5.0 |
| Multi-Stack             | Yes                                                                       |
| Multi-Channel Listening | Yes                                                                       |
| Power                   | +10 dBm, +20 dBm                                                          |
| Type                    | Transceiver                                                               |

## QPG6095

|                         |                                                                  |
|-------------------------|------------------------------------------------------------------|
| Application             | Smart Home Devices                                               |
| Protocols               | 802.15.4, Zigbee 3.0, Zigbee GreenPower, Thread, Bluetooth Smart |
| Multi-Stack             | Yes                                                              |
| Multi-Channel Listening | Yes                                                              |
| Power                   | +10 dBm                                                          |
| Type                    | System on Chip                                                   |

For more information, download our IoT brochure or visit [www.qorvo.com/smart-home](http://www.qorvo.com/smart-home)