




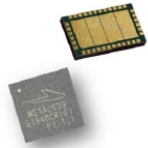
Wolfspeed's GaN on SiC Technology enables enhanced innovation, performance and efficiency for mMIMO and Macro Applications. Open RAN applicable

mMIMO, Multiple Input Multiple Output is a technology introduced into many wireless communications systems including 4G LTE to improve signal performance. Using multiple antennas, LTE MIMO is able to utilise the multiple path propagation that exists to provide improvements in signal performance.



mMIMO Basestations


- GaN on SiC Products
- Focus on 2.7 GHz to 4 GHz
- Discrete and Integrated Modules
- Amplifiers for 64& & 32T systems



mMIMO Power Amplifier Example Solutions


| | | | |
|----------------------------------|---|---|--|
| WS1A2639 2496-2690 MHz |  | <ul style="list-style-type: none"> Asymmetric Doherty Design Input matched to 50 Ω Supply Voltage: 48V iBW: 194 MHz | <ul style="list-style-type: none"> Pavg: 38.5 dBm Psat: 47 dBm 2496-2690 MHz <ul style="list-style-type: none"> – Lineup Eff: 48% – Lineup Gain: 35 dB |
| WS1A3640 3300-3800 MHz |  | <ul style="list-style-type: none"> Asymmetric Doherty Design Input matched to 50 Ω Supply Voltage: 48V iBW: 400 MHz | <ul style="list-style-type: none"> Pavg: 39.5 dBm Psat: 48 dBm 3.4-3.8GHz RF BW <ul style="list-style-type: none"> – Lineup Eff: 43% – Lineup Gain: 28 dB |
| WS1A3940 3700-3980 MHz |  | <ul style="list-style-type: none"> Asymmetric Doherty Design Input matched to 50 Ω Supply Voltage: 48V iBW: 280 MHz | <ul style="list-style-type: none"> Pavg: 39.5 dBm Psat: 48 dBm 3.7-3.98GHz RF BW <ul style="list-style-type: none"> – Lineup Eff: 43% – Lineup Gain: 28 dB |

Macro Remote Radio Unit (RRU), commonly referred to as a **Remote Radio Head (RRH)**, is a transceiver on wireless base stations. These transceivers connect wireless devices with wireless networks, making it possible to send data (e.g receive/send text messages)



Macro RRU

- GaN on SiC 1.8 to 4 GHz
- LDMOS 0.7 to 2 GHz
- Doherty solutions from 20W to 80W systems



RF Power Macro RRH Product line

GaN Product Portfolio:

- 40 W to 80 W System Solutions
- 1.8 GHz to 5 GHz
- Optimised designs for cellular systems
- Optimised for DPD



LDMOS Product Portfolio:

- 40 W to 80 W System Solutions
- 50 V LDMOS for <1 GHz Doherty Transistors
- 28 V LDMOS for 1.8-2.6 GHz Doherty Transistors
- 28 V LDMOS drivers, 2-stages, Discrete Transistors
- High reliability and RF consistency



Wolfspeed offer an extensive portfolio of GaN on SiC Transistors for Telecom Systems supporting all global standards and frequency bands.



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