



Guerrilla RF's Newest 5 GHz, WLAN, Access Point Amplifier Drivers Feature Industry-leading Bypass LNA Gain and Noise Figure

*Low-cost, Compact, Flat-gain Ultra LNAs and Linear PAs
Enable High Performance for Demanding 802.11ac Applications*

GREENSBORO, N.C. – February 2, 2015 – Guerrilla RF Inc., a leading provider of high performance MMICs, today introduces the newest members to the company's family of 5 GHz ultra low noise amplifier/linear power amplifier drivers. These new devices feature best-in-class noise figure (NF), gain and linearity. The cost-effective, small footprint, flat-gain solutions are designed for WLAN access points offering the highest levels of performance for demanding 802.11ac applications.

“The emergence of high performance 802.11ac applications has created the need for a new generation of ultra-low noise figure devices with high gain and outstanding linearity,” said Alan Ake, vice president of applications and technical marketing at Guerrilla RF. “Guerrilla RF is addressing this growing necessity with high-performance low noise amplifiers that utilize bypass-mode capability – crucial for today's WLAN access points.”

Infonetics Research expects the WLAN equipment market to accelerate in 2015 as spending by service providers and education increases and 802.11ac reaches critical mass.

About Guerrilla RF's Newest 5GHz Low Noise Amplifier/Power Amplifier Drivers

The [GRF2505](#) features ultra-low noise and high linearity over the 5 to 6 GHz band making it ideal as either an LNA or as a power amplifier (PA) driver for demanding 802.11ac applications. The strict linearity requirements often demand a high performance driver between the transceiver output and the input to the final PA and the GRF2505, with its high IP3 and compression point, fills this role perfectly. As an LNA, the GRF2505's ultra-low NF of 0.8 dB and high input-referenced linearity contribute to both maximum receiver sensitivity and linearity.

The [GRF2541](#) (internally matched to 50 ohms) ultra-low noise amplifier with bypass designed for IEEE 802.11 a/n/ac/p applications, 15dB flat gain and 1.0 dB NF across the entire 4.9 to 6.0 GHz band, builds on the industry-leading gain and ultra-low NF of the previously announced [GRF2501](#) by adding bypass-mode functionality. This bypass capability improves the receiver dynamic range for improved data rates in high signal strength environments. Guerrilla Armor™ technology also provides exceptional off-state isolation in the presence of high RF input signal levels in LNA power-down mode.

Both the GRF2505 and GRF2541 feature adjustable bias current and Vdd, which allows for optimal application flexibility and efficiency.

Pricing and Availability

Samples and evaluation boards are available now, with full production scheduled for the second quarter. Pricing for 10,000 parts is \$1.00 (GRF2541) and \$1.05 (GRF2505) each.

About Guerrilla RF

Guerrilla RF provides high performance monolithic microwave integrated circuits to wireless infrastructure original equipment manufacturers for greater coverage area and higher data rates. With the company's patented Guerrilla Armor™ technology, team of industry veterans and the best semiconductor process technologies, Guerrilla RF is making a big impact across multiple market segments including enterprise and carrier-class WiFi access points, small cells, wireless backhaul and defense. Guerrilla RF is headquartered in Greensboro, N.C. All trademarks are the property of their respective owners. For more information please visit <http://guerrilla-rf.com> or follow the company on [LinkedIn](#).

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