



Guerrilla RF Awarded Technology Patent for High Isolation Amplifier Circuit Architecture

Guerrilla Armor™ Enhances Robust, Rugged Radio Architecture and Greatly Improves Device Capability to withstand High RF Input Power without Damage

GREENSBORO, N.C. – March 23, 2015 – Guerrilla RF Inc., a leading provider of high performance MMICs, today announces that the U.S. Patent and Trademark Office has issued Patent No. 8,970,296. The company’s first issued patent, expiring in 2033, prevents amplifiers from turning on in the presence of large RF input signals – leading to exceptional isolation and minimal impact to their on-state performance. Guerrilla Armor™ also fits in the same form factor as the company’s existing, best-in-class noise figure low noise amplifiers (LNAs), requiring no additional components and resulting in substantial cost and size savings.

“Guerrilla Armor™ solves a unique issue found in high speed wireless data systems, which are exploding in popularity with the rise of smart phones,” said Alan Ake, vice president of applications and technical marketing at Guerrilla RF. “This makes it especially ideal for wireless backhaul 802.11ac access points and LTE-unlicensed small cells.”

International Data Corp. expects 1.4 billion smartphones to be shipped worldwide in 2015, for a 12.2 percent year-over-year growth rate. Annual growth continues throughout IDC’s forecast with unit shipments approaching 1.9 billion in 2018, resulting in a 9.8 percent compound annual growth rate for 2014 to 2018.

About Guerrilla Armor™

Several of Guerrilla RF’s LNAs incorporate Guerrilla Armor™ including the [GRF2060](#), [GRF2062](#), [GRF2140](#) and [GRF2541](#). A number of new products, slated for introduction in the near future, will also incorporate the company’s circuit architecture. With RF input power exceeding +15 dBm, Guerrilla RF’s LNAs maintain more than 30 dB off-state transmit-to-receive isolation in all conditions.

These LNAs are primarily designed for TDD-WiFi networks, TD-LTE 4G and TD-SCDMA. Numerous proprietary systems in wireless backhaul applications benefit from these solutions, including point-to-point and point-to-multipoint fixed wireless links. The LNAs can also be used in FDD line-ups requiring switched gain states. The technology also applies to standard transmit amplifier chains, where isolation in the presence of high RF drive is required.

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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