





Amphenol, NuCurrent and NXP deliver the industry's fastest, most reliable Qi2 charging, capable of both EPP and MPP, for devices including:

- Casino Gaming
- Charging Accessories
- E-Readers
- Earbud Cases
- Fitness Devices
- Industrial Computers
- Infrastructure
- Medical Devices
- Mobile Computers
- Personal Care
- POS
- Smart Speakers
- Tablets
- Wearable Devices







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Overview

The GPG552-15-000-C-RA module, engineered on the advanced Qi2 Reference Platform and powered by NXP Silicon, sets a superior standard with its industry-leading endto-end efficiency of over 83%. This module, compliant with WPC Qi 2.0 certification, is meticulously designed for seamless integration into a variety of devices, facilitating optimized wireless charging solutions. It employs advanced hardware and proprietary software to precisely control power transfer and to monitor critical system parameters, ensuring peak performance and maximum safety. Notably, the module leverages proprietary low power modes, achieving ultra-low energy consumption, which is advantageous for battery-powered applications and is instrumental in meeting CEC/DoE Certifications. The innovative use of magnets for optimal positioning maximizes charge transfer efficiency, marking the GPG552-15-000-C-RA as a premium choice for manufacturers striving to enhance the wireless charging functionalities of their products in the competitive tech market.

Key Features

- -20°C to +70°C
- WPC 2.0 certified
- Module thickness: 6.15 mm

Benefits

- Market's thinnest module, allowing for sleek industrial design
- Power transfer efficiency exceeding >83%
- Low Idle Energy Consumption
- Optimized FOD algorithm
- Qi2 MPP solution
- Secured authentication
- Time-sensitive: Product upgradable in just 3 months.
- Module Customization: Meet various requirements such as power levels, existing design, coil-to-coil distance, and interoperability

Power	15W
Power Profile	BPP + MPP
Separation Distanc	e <3 mm
Transfer Method	Inductive
Operating	
Frequency	128KHz & 360Khz

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Version WPC Qi2

Input

Input protocol USB QC 2.0/3.0, PD (Power Delivery)

Voltage 5V to 12V

Output

Wireless Range 2 - 5 mm

Standby power consumption TBD

Operating Frequency 128KHz and 360KHz
Received Power 15W maximum

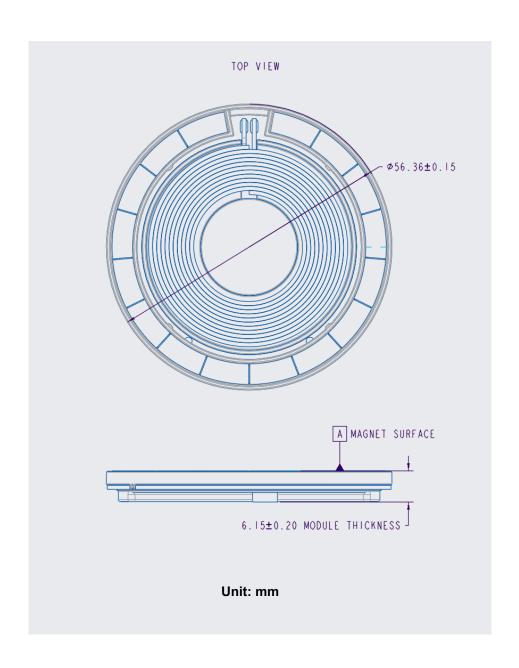
Electrical Character

System Charging efficiency >83%

Certification TBD (CE/FCC/ROHS)

Operation Temperature -20 to +70°C

Dimension



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Testing Data: Highest Efficiency in Market

System Efficiency

- Enabling CEC and energy consumption strategic objectives for our OEM partners
- Enabling faster charging rates, especially in high ambient temperature conditions.

82.8% DC – DC efficiency for 15W MPP received power using P3A Tx and MPP Rx test tool.
5W and 15W output achieved at all normal and extreme coil positions.

