

jjPlus Showcasing Next Generation Wireless Power and WiFi Solutions at Computex 2019

Unleash the full potential of your solutions with jjPlus wireless technologies!

TAIPEI, Taiwan, May 21, 2019 — jjPlus Corp. a Taiwan design manufacturer of high quality wireless communications and wireless power embedded solutions, will showcase the next generation Wireless Power Transfer as well as new WiFi solutions at COMPUTEX 2019 in Nangang Exhibition Center, Hall 1, at K1024 booth during May 28 - June 1 in Taipei, Taiwan..

Wireless Power Transfer

Fueled by today's mobile phone wireless charging, wireless power is gaining user awareness and ready to be incorporated into our daily lives. Wireless power transmitters can be placed in furniture, walls and on the floor as an efficient and economical power, or charge our electronic and electrical devices. Wireless power transceiver modules can be embedded in robots, wearables, smartphones and other devices to enable wireless charging.

Magnetic resonance technology is the key to ubiquitous implementation of wireless power – enabling large surface area transmission, spatial freedom for placement of receiving devices, and the ability to power multiple devices simultaneously. At the core of these designs are [eGaN[®] FETs and ICs](#) operating at 6.78 MHz frequency (meeting the AirFuel Alliance standard) resulting in maximum wireless power system efficiency. For more information, please visit www.epc-co.com.tw.

jjPlus is releasing 3 new wireless power solutions at COMPUTEX show for applications in the following area:

1) Robotic Wireless Charging

Wireless charging for autonomous robots is the key enabling factor that the robots can remain autonomous when they maneuver back to the charging zone for a recharge. jjPlus will perform live demo with wireless power transmitter and receiver modules fully integrated into a robot from the world-famous Misty Robotics (www.mistyrobotics.com).

With high positional freedom between the transmitter and the receiver, the robot does NOT need to dock with absolute precision for auto recharging. Instead, the robot simply approaches the transmitter charging area and charging will begin automatically. Without an external power port, robots can be hermetically sealed for water proofing, dust proofing, etc. Such added protection from environmental elements means more durability and enables more user cases and environments in which robots can be deployed. When there is no exposed electrical contacts, the possibilities of hazardous use is reduced to minimum.

Several magnetic resonant wireless power transmitter and receiver modules from 20W and above with XYZ positional freedom for Robotic Wireless Charging will be demonstrated.

2) Smart Shoe/Wearable Device Wireless Charging

Featuring small footprint wireless power receivers, jjPlus is offering smart shoe and wearable device manufacturers to fulfill their needs to enter the world of wireless charging. With a single magnetic resonant wireless transmitter base, a pair of smart shoes (or earphones, game pads etc.) can be "drop-and-charged" anywhere on the charging pad.

This wireless power transfer system, operating at 6.78MHz, supports multiple wireless charging of receiving devices with full positional freedom. In addition, there is only negligible heating effect when unintentional metal objects like coins, keys and watches, etc. are placed on the charging pad.

3) Under Table Qi Smartphone Wireless Charging

Smartphone charging is a necessity in our daily lives. jjPlus wireless power transmitter can charge all Qi compatible mobile phones from under the table with effective table thickness between 15-30mm. The installation is quick and easy without the need to drill a hole through the table to embed this wireless charger. It works with any non-metallic table tops made from materials such as marble, glass, wood, plastic etc. to charge through table any Qi compatible phones. Fast charging for both Apple and Samsung phones can be supported as well!

New WiFi RF modules for embedded communities

1) Wide Temperature 11ac/bgN modules with BT in mPCI-e and m.2 format

JWX6058/JWW6051 are both based on QCA's latest chip of 6174A-5 where within the small module size (in mPCI-e and in m.2, respectively), the units offer 2x2 Mu-MiMo 11ac and 11bgN dual band along with BT4.2 RF capabilities.

The modules are qualified for wide temperature operation range (-40 to 85 degree C) and thus the parts can be designed for outdoor, harsh operation environment. Firmware support includes Linux and Window platform and they're FCC/CE certified.

2) Complete Line of USB for 11ac/bgN with BT in USB, mPCI-e, m.2 format, Wafer connector, Pin header and Half holder

Highlights: WMU6202~62011 (total 10 modules) forms a complete USB WiFi module family. In RF performance, they all offer 2x2 Mu-MiMo 11ac and 11bgN dual band along with BT4.2 RF capabilities. Unlike JWX6058/JWX6051 (in mPCIe protocol), these modules all run USB protocol but in a variety of product form factors. These include Pin-Connector, Half holder, Solder pin, mPCI-e, m.2, and USB (both in Type A and in Pin Wafer).

If on-board antenna is needed, two of these modules (WMU6206 and 6207) offer two on-board printed antennas to support both 2.4GHz and 5GHz dual band needs. The parts also offer impressive driver support including Linux, Window, and Android.

3) Single Band Wave II 11ac modules in standard mPCI-e format

Wave II 11ac modules at the market today are typically in high power 11ac single band only and in odd-shape to provide 4x4 RF features. jjPlus designs the circuit to fit into standard mPCI-e size so that the parts can be easily retrofit in the slots that used to be in the older 11abgN 4x4 technology. Thus, our design is ideal candidate for users who are interested in replacing their EOL RF modules by the latest Wave II 11ac chip set that have the longest longevity life time.

For more information about jjPlus wireless power and WiFi products and services, please visit us at the booth or visit www.jjplus.com

About jjPlus Corp.

Established in 2004, jjPlus is a forerunner design manufacturer from Taiwan in wireless communication and wireless power technologies. With deep domain knowledge and engineering expertise, jjPlus has always been developing and designing collaboratively with fundamental technology partners to offer OEMs and ODMs the latest and the best by integrating jjPlus wireless solutions, gracefully, into their solutions.

To book a meeting with us on-line www.jjplus/#contact or email Lucy Wang – Sales Director, jjPlus Corporation (lucy_wang@jjplus.com)

For enquiries relating to eGaN FET and ICs, please contact Winnie Wong, Efficient Power Conversion Corporation (winnie.wong@epc-co.com)