Wireless Power Transceiver Modules

Unleash the full potential of your products with jjPlus resonant wireless power transceiver modules
– the ability to transfer power wirelessly at a distance or area
– the ability to offer high tolerance of orientational mis-alignment between the transmitter and the receiver
– the ability to power through thick surfaces of various types i.e. wood, glass, stone, water etc.
– the ability to power multiple devices i.e. a single transmitter to multi-receivers configuration
– compared with Magnetic Inductive systems working in the KHz range, jjPlus' 6.78MHz Magnetic Resonance system is much less prone to heating un-intentional metal objects, such as coins/watches to dangerous temperatures

A transceiver module pair consists of a transmitter module and a receiver module, carefully tuned to be highly resonant with each other in order to accomplish efficient wireless power transfer. The transmitter module transmits "resonant power" from the surface area of its antenna (coil) defined by X & Y = power area and to a Z = height which is the distance from the antenna surface. The receiver module, when positioned within the space defined by X, Y and Z, receives the resonant power and performs the necessary conversions to supply to a load which is typically the battery to be charged.

10 Watt
Transceiver Module Pair
Output power: Max 10W, 5V/2.0A to load

Transmitter Module CMT010A
Tx Power Area (X-Y): 115 x 60mm

Tx Power Distance (Z): 15mm optimum

Tx Footprint: 150 x 76 x15mm

Receiver Module CMR010A
Rx Receiving Area (X-Y): 57 x 39mm

Rx Footprint: 71 x 52 x 2mm

20 Watt
Transceiver Module Pair 1
Output power: Max 20W, 9.3V/2.15A to load

Transmitter Module WCTC401
Tx Power Area (X-Y): 150 x 100mm

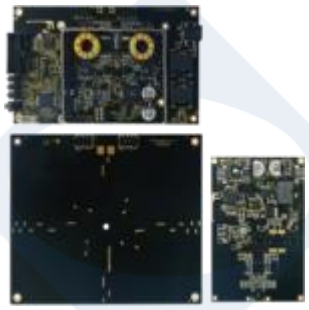
Tx Power Distance (Z): 30mm optimum

Tx Footprint: 240 x 140 x 9mm (coil board), 180 x 70 x 14mm (control board)

Receiver Module WCRC503
Rx Receiving Area (X-Y): 70 x 55mm

Rx Footprint: 135 x 64 x 9mm (coil board), 79 x 37 x 5mm (control board)

20 Watt
Transceiver Module Pair 2
Output power: Max 20W, 20V/1.0A to load



Transmitter Module CMT020B
Tx Power Area (X-Y): 130 x 90mm

Tx Power Distance (Z): 35mm optimum

Tx Footprint: 138 x 115 x 1mm (coil board), 138 x 82 x 13mm (control board)

Receiver Module CMR030A
Rx Receiving Area (X-Y): 97 x 57 mm

Rx Footprint: 97 x 66 x 14mm

30Watt
Transceiver Module Pair
Output power: Max 30W, 20V/1.5A to load

Transmitter Module CMT030A
Tx Power Area (X-Y): 140 x 120mm

Tx Power Distance (Z): 35mm optimum

Tx Footprint: 195 x 155 x 1mm (coil board), 195 x 80 x 14mm (control board)

Receiver Module CMR030A
Rx Receiving Area (X-Y): 97 x 57 mm

Rx Footprint: 97 x 66 x 14mm