

# CONSUMER AND COMMERCIAL DRONE SOLUTIONS >



**molex<sup>®</sup>**

# Powering the Next Generation of Drones »

Drones can be used in a variety of ways – both recreationally or commercially – and come in different frame size classifications such as nano, micro, mini, mid, hobby and pro. Smaller-sized drones have more limited features while larger drones require more power to drive advanced applications and enhanced features.

Generation 7 drones will soon be fully adapted for commercial use and will adhere to new safety compliance regulations allowing for full autonomous flight. Molex is at the forefront of the next generation of drones, enabling both flight controls and wireless functions with electronic and power solutions. Molex supplies key connector and cable assemblies to support the various features that propel drones. From the mainboard to the remote control, there is a Molex product and solution to power it.

## I/O

- USB Type-C Connectors and Cable Assemblies



## Indoor Positioning System

- Easy-On FFC FPC Connectors
- SlimStack Board-to-Board Connectors
- Pico-Clasp Wire-to-Board Connectors
- RF/Microwave Products



## Antenna

- Standard Antenna
- MID/LDS Capabilities
- RF/Microwave Products



## Mainboard

- Easy-On FFC FPC Connectors
- Premo-Flex Cable Jumpers
- SlimStack Board-to-Board Connectors
- Memory Card Sockets
- HOZOX HF2 EMI Suppression Sheets
- Micro-Lock Plus Wire-to-Board Connector System
- RF/Microwave Products



## Battery

- EXtreme Ten60Power High-Current Connector
- Compression Connectors
- PowerLife Wireless Charging Coils



## Gimbal

- Easy-On FFC FPC Connectors
- SlimStack Board-to-Board Connectors
- Memory Card Sockets
- Pico-Clasp Wire-to-Board Connectors



## Easy-On FFC FPC Connectors

- ZIF, NON-ZIF, Slider, flip-style actuator
- Super fine pitch size
- Wide variety of selection pin count



## Premo-Flex Cable Jumpers

- Extensive range of custom
- Off-the-shelf option



## SlimStack Board-to-Board Connectors

- Wide alignment guides
- Dual contact design
- Metal covers



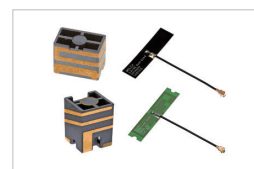
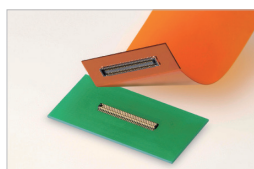
## USB Type-C Connectors and Cable Assemblies

- Support 5.0A current
- Mid-plate receptacle 'tongue' design



## Standard Antenna

- Wide frequency
- High radiation efficiency
- Compact







### MID/LDS Capabilities

- Enables electronic circuitry on molded plastic
- 3-D selective trace solutions



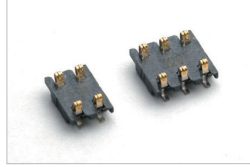
### EXTreme Ten60Power High-Current Connector

- 10.00mm height
- Rated up to 60.0A/blade



### Compression Connectors

- Low Level Contact Resistance (LLCR)
- 1.20mm height



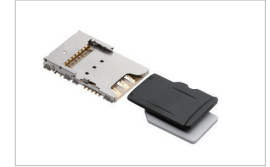
### PowerLife Wireless Charging Coils

- Highest Q factor
- Various frequencies



### Memory Card Sockets

- Variety of SD, SIM and Combo SD/SIM Memory Card Connectors
- Compact size with small footprint and low profile height



### Remote Control

- Easy-On FFC FPC Connectors
- Premo-Flex Cable Jumpers
- SlimStack Board-to-Board Connectors
- Micro-USB Connectors
- Micro-Lock Plus Wire-to-Board Connector System
- RF/Microwave Products



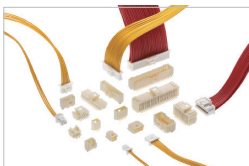
### HOZOX HF2 EMI Suppression Sheets

- Superior noise mitigation up to 40 GHz
- Pliability to wrap easily



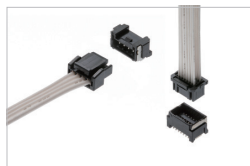
### Pico-Clasp Wire-to-Board Connectors

- Smallest 1.00mm pitch for positive lock Wire-to-Board
- Wide header variations



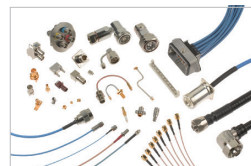
### Micro-Lock Plus Wire-to-Board Connector System

- 1.25mm pitch
- electrical and mechanical reliability in a high-temperature design



### RF/Microwave Products

- Frequencies from DC to 65 GHz
- Sizes from ultra-micro-miniature to large RF



[www.molex.com](http://www.molex.com)