

Technology & Design

Applications and UX / UIx	Sensor Solution								UX/UI				
	T & H Sensor Sensirion SHT40		VCO2 Sensor Sensirion SCD40		PM1.0 / PM2.5 / PM10 Panasonic - SN - GCJA5		Light Sensor ROHM - BH1721FVC		Formaldehyde Sensor		iOS / Android Apps		
	TVOC Sensor ScioSense ENS160		PIR Sensor EKMC160111 (Pan)		Acceleration Sensor Bosch - BMA400		CO Sensor		O2 Sensor		NH3 Sensor		Voice skills Alexa & Google Assistant
RF Solution (Telecom/Networking/Wireless)	Wireless					Telecom / LPWA			Network				
	WiFi5 + BLE 5.0 Solution			WiFi5 + BLE 5.0 Solution		LTE CAT M1 & NB-IOT Solution			HTTP / HTTPS, MQTT, TCP / U DP Modbus Protocol Node - Red Dashboard Development Customization.				
	WiFi 5 Soutlion			BLE- Nordic Solution		Quectel / Fibocom / SIMCom			Mesh (BLE / WiFi)				
	UWB (Ultra - wideband) Solution			Thread / Zigbee / Matter Protocol					Beacon (BLE)				
Platforms MCU & Soc	MCU / SoC					Operating System			Cloud Platforms				
	ST	Microchip	Weltrend	Cypress	Rockchip	Linux	RTOS	AWS / iCloud Google / Azure		Exostie / FLOWRING TinyML SensiML / TFLiteMicro / Edge Impulse			
Wireless Power	Standard					Wireless Chip Solution							
	1. Compliant with Qi 2.2 25 W / Qi 2.1, EPP/MPP (STWLC89JRO) 2. Power Class 0 BPP (5 W) and EPP (15 W) ,84% efficiency 3. Power Tx design topologies MP - A2 and MP - A22					ST	iDT	NuVolta		SCP	Generalplus		
Hub accessory	HUB (USB 3.2)			HDMI Converter									
	Genesys		VIA Labs	LONTIUM LT8711 Type - C / DP1.4 to HDMI2.1 Converter Angoltek AG9321: DisplayPort 1.2 over USB - C to HDMI 1.4 / VGA converter with PD 3.0									

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www.jpcco.com



sales@jpcco.com



A. Advanced Wireless & Inductive Charging Technology

- Reliable wireless & Inductive Charging performance and customer usability experience
- No risk to schedule
- We have over years of experience integrating and manufacturing Inductive Charging in mobile phone and tablet system .
- For this project' s OEM characteristics, JPC basically will follow up the design from customer for no matter EE or ME, however, we will actively feedback and share our engineering experience during the whole customer' s development process, to be a strong partner for not just pure manufacturing function and make this project much more easier for production by advanced plan during development stage.

B. Extensive design experiences in wireless products

We have over 10 years of proven custom OEM/ODM peripheral projects execution meeting strict standards of top tier consumer electronics OEMs/ODMs

Radio Product Certification Laboratory is equipped with a full anechoic chamber. The Biconical , Log and horn antenna are used as the testing antennas to cover a frequency range of 26 MHz to 26 GHz.

The evolution and refinement of our product development process ensures timely and high quality product results



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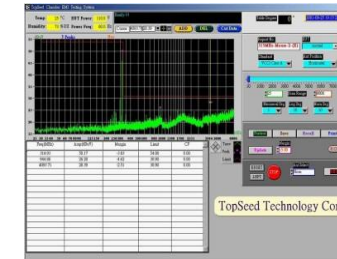


Electronic Product OEM/ODM Industrial Design

The process of OEM/ODM industrial design encompasses several key steps, including conceptual design, 3D modeling, material selection, manufacturing processes, quality control, assembly, and testing. We utilize a variety of specialized equipment and software tools to achieve innovative and high-quality industrial design, meeting market demands.

Process Flow

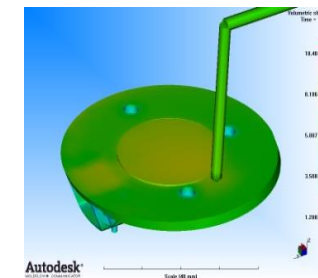
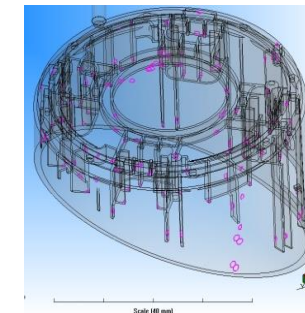
- 1. Conceptual Design:** The process begins with conceptual design, where designers and engineers collaborate to determine the visual features and functional requirements of the product. This stage typically involves the use of digital modeling software.
- 2. 3D Modeling:** Designers employ 3D modeling software to create detailed visual designs, including structural arrangements, dimensions, shapes, and materials.
- 3. Material Selection:** Materials are selected based on design requirements, considering factors such as strength, durability, weight, and aesthetics.
- 4. Manufacturing Processes:** The manufacturing processes for industrial design involve mold design, mold fabrication, injection molding, surface treatments, and more.
- 5. Quality Control:** Stringent quality control measures are implemented during production to ensure that the industrial design conforms to specifications.
- 6. Assembly and Testing:** Components are assembled into the final product, and rigorous testing is conducted to ensure that performance and appearance meet expectations.



Radio Products
EMI Test &
antenna test



Laboratory
capability



Molding flow
analysis



RP 3D System
Mechanic parts

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SMT & Assembly - JPC Factories



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Environmental - Chemical Lab



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Lab. Equipment: Environmental Evaluation



Salt Spray Test Machine



Thermal Shock Tester



Temperature/Humidity Chamber

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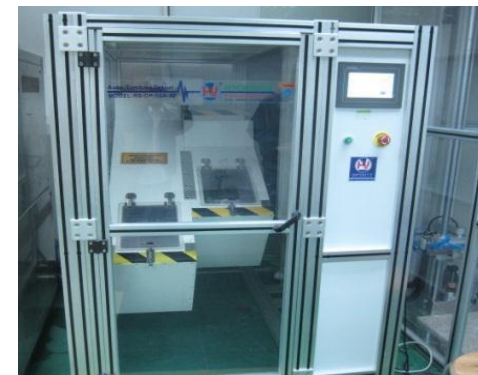
Lab. Equipment: Devices Evaluation



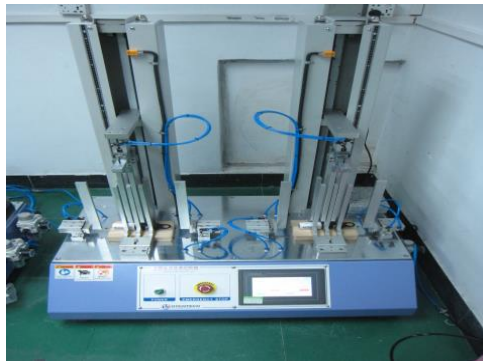
Button Life Tester



Drop Tester



Tumble Tester



Repetitive Drop Tester



ESD Tester/Environment



Rain Tester

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