

Technology & Design

Applications and UX / Ulx	Sensor Solution									UX/UI	
	T & H Sensor Sensirion SHT40	VCO2 Sens Sensirion SCE		PM1.0 / PM2.5 / Pl Panasonic - SN - G				Formaldehyd Sensor	le i	OS / Android Apps	
	TVOC Sensor ScioSense ENS160	PIR Sens EKMC160111 (,	Acceleration Senso Bosch - BMA400		CO Sensor O2 Sens		r NH3 Sens	or Alex	Voice skills xa & Google Assistant	
RF Solution (Telecom/Networking/Wireless)	Wireless				Telecom / LPWA			Network			
	WiFi4 + BLE 4.0 Solution WiFi5 + BLE 5.0 Solution			5.0 Solution	LTE CAT M1 & NBIOT Solution			HTTP / HTTPS, MQTT,TCP / U DP Modbus Protocol Node - Red Dashboard Development Customization.			
	WiFi 4 Soultion BI		BLE- Nordic	BLE- Nordic Solution		Quectel / Fibocom / SIMCom		Mesh (BLE / WiFi)		WiFi)	
	UWB (Ultra - wideband) Solution Thread / Zigbee / Matter Protocol					Beacon (BLE)				E)	
Platforms MCU & Soc	MCU/SoC				Operating System			Cloud Platforms			
	ST Microchip	ST Microchip Weltrend		Rockchip	Lin	Linux RTOS		WS / iCloud oogle / Azure	Exostie / FLOWRING TinyML SensiML / TFLiteMicro		
Wireless Power	Standard				Wireless Chip Solution						
	1. Compliant with Qi WPC 1.2.4, PD 2. Power Class 0 BPP (5 W) and EPP (15 W) , up tp 100W 3. Power Tx design topologies MP - A2 and MP - A22				ST	iD	Т	Weltrend	SCP	Generalplus	
Hub accessory	HUB (USB :	HDMI Con	HDMI Converter								
					DP1.4 to HDMI2.1 Converter Fort 1.2 over USB - C to HDMI 1.4 / VGA converter with PD 3.0						









Technology & Design

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









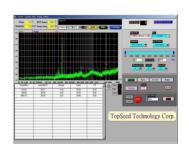
Technology & Design

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

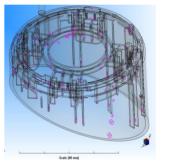
- **1.Conceptual Design**: The process begins with conceptual design, where designers and engineers collaborate to determine the visual features and functional requirements of the product. This stage typically involves the use of digital modeling software.
- **2.3D Modeling**: Designers employ 3D modeling 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.

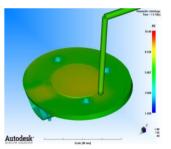


Radio Products EMI Test & antena test



Laboratory capability





Molding flow analysis



RP 3D System Mechanic parts







