

Item No.	Item	Description	ODM Vendor's Opinion	Sinica's Comment
1	Integrated hardware vs. non-integrated hardware	Integration: provision requirement of reference design document from each function part vendor/ for high-medium volume manufacturing/ cost down Non-integration: qualified PCBA provided by each function part vendor/ for low volume manufacturing/ cost up	Non-integration is preferred for phase I (1st Gen) production under the coverage of the Proposal to Government. As for phase II (2nd Gen), our available platform may have chance to become another candidate.	
	Product spec			
	Chips	Raspberry Pi Zero W USB HUB - ixCooby H-19 4 Port USB 2.0 Hub IM844 Bluetooth module - CSR 4.0	Sinica consigns key parts (refer to other page)	
	Power	Zigbee Module - XBee S2C		
	LED	via micro USB		
2	Modified enclosure vs. newly designed enclosure	TBD	N/A	
	Antenna	Depends on effort and cost		
	Mounting options	Internal integrated directional patch antennas	Two types of antenna are provided by Accton. Others are on request.	
	Operating temperature	Ceiling mount		
	Humidity	0-40C	check modules/hub spec.	
	Design Verification test	5 to 95% non-condensing		
3	Regulatory	FCC Part 15B/C EN300328 EN301489 EN55022 NCC	Sinica for the EVT/DVT/System integration test test items are to be selected	
	Environment test	ENV test matrix	TBD (refer to another page)	
4	Manufacturing verification test	Antenna PT System FT (Full assembled)	No PCBA PT is needed Sinica provides system level final-test plan	
5	Package design		Sinica provides logo etc.	

* Physical dimension of Raspberry Pi zero W is also 65 mm x 30 mm x 5 mm

* Raspberry Pi Zero mounting holes 58 mm x 23 mm, hole size M2.5 (2.5 mm).
(Raspberry Pi Zero W has the same size as Pi zero)

* Dongle Connection

* Temperature of Pi ranges from 0°C ~ 70°C specified by manufacturers.