

Risk Assessment			
Manufacturer:	Fanstel Corporation, Taipei		
Model:	ESP32M4; ESP32E4; ESP32M16; ESP32E16; ESP32F16; ESP32F4; ESP32F4		
Trademark	Fanstel		
Hazard group	Item	Hazard (product property)	Risk Level (Low, Middle, and High)
Safety (Hazard to the Safety of persons and domestic animal)	A	Electric Shock	Low, *1
	B	Energy Related Hazards	
	C	Fire	
	D	Heat	
	E	Mechanical	
	F	Radiation	
	G	Chemical	
Operation environment (Hazard to the Safety, electrical equipment, and radio spectrum)	A	Working Temperature	Low, *2
	B	Working Humidity	
EMC (Hazard to electrical equipment)	A	Electro-magnetic interference (accessories accompanied with device)	Low, *3
	B	Electro-magnetic susceptibility (accessories accompanied with device)	
RF (Hazard to radio spectrum)	A	Spurious Emission	Low, *4
	B	Output Power	
	C	Frequency Stability	
	D	Receiving sensitivity	
	E	Intermodulation (if multiple transmitters are applicable)	
	F	Near Field communication (if op. freq is 30MHz lower)	NA
	G	Network Controlling aspect (MAC related)	Low
RF exposure (Hazard to the health of person and domestic animal)	A	MPE (Power Density at Far Field or SAR measurement at Near Field)	Low, *5
Others	A	Reliability, Repeatability, and Traceability	Low
Risks Control Measures		Following the standards to test and evaluate to control the risk at low level	

**Remark:**

\*1: refer to EN60950-1 safety report

\*2: refer to user manual

\*3: refer to EN301489-1/-17 EMC report.

\*4: refer to EN300328 RF reports.

\*5: refer to EN50566 & EN50663 report.