

Comparison of Available Technology



LOW POWER WIDE AREA NETWORKS (LPWAN)			SHORT RANGE NETWORKS				
TECHNICAL CAPABILITIES	LoRaWAN	CELLULAR	BLE	WIFI	THREAD	ZIGBEE	Z-WAVE
RANGE (km/m)	2-5 urban; 15 suburban; 45km rural	35km GSM; 200km 3G/4G	80m	50m	Mesh	100m/Mesh	30m/Mesh
DEEP INDOOR PERFORMANCE	Yes	No	No	No	No	–	–
FREQUENCY BAND	Varies, Sub-GHz	900/1800/ 1900/2100MHz	2.4GHz	2.4GHz	2.4GHz	915MHz/ 2.4GHz	900MHz
POWER PROFILE	Low	Medium	High	High	Low	Low	Low
OPERATIONAL MODEL	Public or private	Public or private	Public or private	Public or private	Public/WiFi backbone	Public or private	Public or private
SCALABILITY	Yes	Yes	Yes	–	Yes	Yes	Limited