

Appliation Requirements Map

Legende

Level	Label	Distanz [m]	Datendurchsatz [b/s]	Robustheit	Sicherheit
1	Easy-going	1-100	b/s	Unterbrüche toleriert	öffentliche Daten
2	important	100 - 1k	kb/s	keine Unterbrüche	Insensitive Daten
3	critical	1k - 10k	mb/s	zeitkritisch, ohne Unterbrüche	Persönliche Daten (Datenschutz)

Topologie	Energieverbrauch	Verwaltbarkeit	Einfachheit (d. Bedienung)	Kosten/Gerät [CHF]
Point-to-Point	Stromanschluss vorhanden	Remote Reset	Experte	1
Star	(kleine) instabile Stromquelle	Remote Config	Geschultes Personal	10
Mesh	nur Batteriegespiessen	Remote OTA	DAU-Kontakt	50

Anwendung	Distanz	Bandbreite	Robustheit	Sicherheit	Topologie	Energieverbrauch	Verwaltbarkeit	Einfachheit	Kosten
Metropolitan									
Smart Parking	2	1	2	2	2	3	3	3	1
Smart Light	2	1	1	2	2	1	3	2	1
Smart public transport	2	2	3	3	2	1	3	3	2
Waste Management	3	2	1	2	3	2	3	2	1
Urban Noise Maps	2	1	1	1	2	2	3	3	2
Smartphone Detection	2	2	1	3	2	1	3	3	3
Smart Roads	1	2	2	3	3	1	3	3	3
Smart Traffic Light	2	2	3	3	3	1	3	3	2
Water monitoring	3	2	1	2	3	3	3	2	3
Structural health	3	1	1	3	2	1	2	3	2
Traffic Congestion	3	2	2	3	3	1	2	2	2
Home automation									
Smart light	1	2	2	2	3	1	1	3	3
Smart fridge	1	1	1	3	2	1	1	3	3
Garage Door	1	1	2	3	2	1	1	3	3
Smart Energy Management	1	2	1	2	3	2	3	3	2
Smart Multimedia	1	2	3	3	3	1	2	3	3

Smart Cleaning	1	2	2	3	3	3	2	3	3
Smart Sleep	1	1	1	3	2	2	1	3	2
Smart Doors	1	2	3	3	3	3	2	3	2
Smart Planning/Calendar	1	2	2	3	2	2	2	3	2
Smart Pet Supervision	1	2	1	3	3	3	2	3	2
Smart Grid	1	1	1	3	2	1	2	3	3
Smart Pans	1	1	1	3	3	3	2	3	2
Agriculture/Farming									
Irrigation System	1	2	2	2	3	2	2	2	2
Smart Animal Nutrition	2	2	2	3	2	1	2	2	3
Smart Stables	2	2	1	3	2	1	2	2	3
Smart Growing	2	1	2	2	2	2	2	2	2
Fence Control	3	1	2	2	2	2	1	2	2
Wine Quality Enhancement	2	1	1	3	2	3	2	3	1
Smart Green Houses	2	2	1	2	3	2	2	2	1
Meteorological Station	2	2	1	1	3	2	3	3	3
Smart Compost	2	2	1	2	3	2	2	3	2
Smart Machine Park	2	2	2	3	3	2	2	2	3
Industry									
Smart Robots	3	2	3	3	3	3	3	1	3
Access Control	2	1	3	3	2	3	2	3	1
Air quality control	2	2	1	2	3	3	2	2	2
Smoke/Gas detection	2	2	2	2	3	3	2	2	2
Machine self-diagnosis	1	1	2	3	1	2	3	2	2
leakage detection	1	2	2	2	3	3	2	2	2
Smart Grid	3	2	2	3	3	1	2	2	3
Smart production lines	2	2	2	3	3	1	3	1	2
Production supervision	2	2	3	3	3	2	3	2	2
Smart quality control	2	2	2	3	3	2	2	2	2
Logistics									
Inventory Management	2	1	3	3	2	3	2	2	1
Supply chain control	2	2	1	3	3	1	2	2	1

NFC Payment	1	1	1	3	1	3	1	3	1
Shoppingcenter Mgmt	2	2	2	3	2	1	2	2	3
Product Management	2	2	1	3	2	1	2	2	2
Smart Warehouse	2	2	2	3	3	1	3	2	1
Smart Transport	2	2	1	3	3	3	1	2	1
Smart Shipping	2	1	1	3	2	3	1	2	3
Smart asset tracking	2	1	1	3	2	3	2	3	2
Asset quality monitoring	2	1	2	3	2	3	2	2	2
Health									
Patient Care system	2	1	3	3	2	3	3	3	3
Patient Tracking	3	2	3	3	3	3	2	3	2
Patient Health tracking	2	2	1	3	2	3	2	3	3
Patient Sports tracking	3	2	2	3	3	3	1	3	2
Infection Tracking	2	2	2	3	3	2	3	2	3
Patient Fall Detection	2	1	1	3	2	1	1	3	2
Medical fridge	2	1	2	3	2	1	2	2	3
Ultraviolet Radiation	2	1	1	3	2	3	2	3	3
Smart Patient history	2	2	1	3	2	1	1	3	1
Smart Long-Time-Studies	2	2	1	3	2	3	3	1	3
Education									
Smart learning	1	3	1	3	2	1	3	3	3
Project tracking	1	2	1	3	2	2	2	3	1
Smart Learning Schedules	2	2	1	3	2	1	1	3	1
Adaptive Learning Assistant	2	2	1	3	3	2	1	3	1
Smart Study Administration	1	2	1	3	2	1	2	2	1
Smart Study Planner	2	2	1	3	2	1	1	3	1
Smart Internship Chooser	1	2	1	3	2	1	2	3	2
Smart Classroom	1	3	1	1	3	3	1	3	2
Smart Classroom Reservation	3	2	1	1	2	3	1	2	2
Smart Exam Supervision	1	2	3	3	3	1	1	3	2