



Access Point AW22R

Client CW22R

- Closed realtime-WLAN consisting of Access Points (APs) and clients
- Transmission with reliably low latency for critical real-time applications
- Innovative protocol for robustness, security, and convenient radio management
- Plug-and-play operation for Ethernet-based data transmission, including PROFINET, PROFIsafe, UDP/IP, TCP/IP, OPC-UA
- Intuitive web interface for configuration and monitoring of the wireless connection

Wireless Features

Systematic one-way latency	2 ms per client per AP
Jitter	≤ 2 ms (in addition to latency)
Reliability	99.9999 % (for specified latency and jitter)
Data throughput	6 Mbit/s per AP
Maximum data unit	1500 Bytes (payload per Ethernet frame)
Frequency spectrum	2412 MHz – 2462 MHz 5180 MHz – 5240 MHz 5745 MHz – 5865 MHz 5955 MHz – 6415 MHz
Bandwidth	2 × 20 MHz per AP

Conformity

Mark	CE
Safety	EN IEC 62311 EN IEC 62368-1
Radio	ETSI EN 300 328 ETSI EN 300 440 ETSI EN 301 893 ETSI EN 301 687
EMC	ETSI EN 301 489-1 ETSI EN 301 489-17 EN 55032 EN 55035 EN IEC 61000-6-1 EN IEC 61000-6-2 EN IEC 61000-6-3 EN IEC 61000-6-4
RoHS	EN IEC 63000

Connections

Power supply	Client	12 – 48 V DC
	AP	12 – 48 V DC or PoE 802.3af
Power max.	Client	10 W
	AP	15 W
DC	M12, 5-pin, A-coded	
Ethernet	Client	M12, 4-pin, D-coded, 100 Mbit/s
	AP	M12, 8-pin, X-coded, 1 Gbit/s
Antennas	SMA female, 50 Ω	

Mechanical Data

Dimensions without antennas	Client	130 mm × 100 mm × 36 mm
	AP	140 mm × 160 mm × 39 mm
Mounting	Wall mounting	

Environment

Operating temperature	-20 °C to +60 °C	
Degree of protection	IP65	

Security

Data	256-bit authenticated encryption	
Device	Integrity through Secure Boot and protected firmware bundling	