



Access Point AW22R



Client CW22R

- Closed wireless communications system based on 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, PROFI-safe, LLDP, 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
Bandwidth	2 × 20 MHz per AP

Conformity (testing in progress)

Mark	CE
Safety	EN 62368-1, EN 6300, EN 62311
Radio	EN 300 440, EN 301 893, EN 300 328
EMC	EN 301 489-1, EN 301 489-17, EN 55032, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-6-8

Connections

Power supply	12 bis 48 V DC (client), 12 bis 48 V DC or PoE+ 802.3at (AP)
Power max.	10 W (client), 15 W (AP)
DC	M12, 5-pin, A-coded or terminal block
Ethernet	M12, 4-pin, D-coded or RJ45, 100 Mbit/s (client), M12, 8-pin, X-coded or RJ45, 1 Gbit/s (AP)
Antennas	SMA female, 50 Ω

Mechanical Data

Dimensions	130 mm × 100 mm × 36 mm (client), without antennas 140 mm × 160 mm × 39 mm (AP)
Mounting	Wall mounting

Environment

Operating temperature	0 °C to +40 °C (enhancement in progress)
Degree of protection	IP65 (M12), IP20 (terminal block / RJ45)

Security

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