Industrial Wireless Connectivity







When You Need Industrial-Grade Reliability and Performance

Wireless connectivity allows you to cover a wide area easily and quickly without trenching new cable, and your connected devices do not have to be physically tied to a fixed location. While you might be able to use commonly available commercial-grade wireless technology, **be aware that low-cost hardware may not be optimized for certain industrial use cases.**

- Are you connecting to devices in an outdoor, factory, or harsh environment?
- Does your application involve remote or unmanned operation?
- Will your operation be significantly affected by intermittent connection or hardware failure?

If these scenarios apply to you, you need **industrial-grade wireless equipment** that was designed specifically for these situations. You will gain high communications performance and reliability while reducing your overall operational costs.

Moxa has 30 years of experience designing and manufacturing this kind of communications equipment specifically for industrial use. Our hardware is tested and certified for high interoperability, wide temperature tolerances, and mission-critical performance. We have helped provide wireless connectivity for nuclear power plants, municipal transportation systems, and the International Space Station. And we can help you.

Visit Moxa.com to learn more.

Moxa Industrial Wireless AP/Bridge/Clients

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	Single-RF Wireless Transceiver				Dual-RF Wireless Transceiver	
	AWK-1131A	AWK-3131A	AWK-4131A	AWK-3191	AWK-5232	AWK-6232
WLAN		•				
Wireless Standard	802.11a/b/g/n	802.11a/b/g/n	802.11a/b/g/n	900 MHz	802.11a/b/g/n	802.11a/b/g/n
Number of RF Modules	1	1	1	1	2	2
Maximum Data Rate	300 Mbps	300 Mbps	300 Mbps	54 Mbps	300 Mbps	300 Mbps
Transmission Distance (with Default Antennas)	Up to 100 meters (in open areas)	Up to 100 meters (in open areas)	Up to 100 meters (in open areas)	Up to 30 km point-to- point (with high gain Yagi-antennas)	Up to 100 meters (in open areas)	Up to 100 meters (in open areas)
Interfaces						
Total Number of Antenna Ports	2 (2x2 MIMO)	2 (2x2 MIMO)	2 (2x2 MIMO)	2 (2R1T Diversity)	4 (2x2 MIMO)	4 (2x2 MIMO)
Antenna Port Type	RP-SMA (female)	RP-SMA (female)	N-Type (female)	RP-SMA (female)	RP-SMA (female)	N-Type (female)
Total Number of LAN Ports	1	1	1	1	2	2
LAN Port Type	RJ45	RJ45	Waterproof RJ45	RJ45	RJ45	M12 (female 8-pin A-coded)
LAN Port Speed	10/100/1000Base T (X)	10/100/1000Base T(X)	10/100/1000Base T(X)	10/100/Base T(X)	10/100/1000Base T(X)	10/100/1000Base T(X)
Power Requirements						
Input Voltage	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC	12 to 48 VDC
Connector Type	4-pin terminal block	10-pin terminal block	M12 (male 5-pin A-coded)	10-pin terminal block	10-pin terminal block	M12 (male 5-pin A-coded)
PoE Support	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Standards and Certifications						
Satefy	UL 60950-1, EN 60950-1	UL 60950-1, EN 60950-1	UL 60950-1, EN 60950-1	UL 60950-1	UL 60950-1, EN 60950-1	UL 60950-1, EN 60950-1
Hazardous Location	-	UL/cUL CI D2, ATEX Zone2, IECEx	-	-	-	-
EMC	EN 55022/24	EN 61000-6-2/6-4	EN 61000-6-2/6-4	-	EN 55022/55024	EN 55022/24
Radio	EN 301 489-1/17, EN 300 328, EN 301 893, TELEC, FCC ID SLE-WAPN005	EN 301 489-1/17, EN 300 328, EN 301 893, TELEC, FCC ID SLE-WAPN005	EN 301 489-1/17, EN 300 328, EN 301 893, TELEC, FCC ID SLE-WAPN008	FCC ID SLE-WAFS001	EN 301 489-1/17, EN 300 328, EN 301 893, TELEC, FCC ID SLE-WAPN001	EN 301 489-1/17, EN 300 328, EN 301 893, TELEC, FCC ID SLE-WAPN001
Operating Temperature	0 to 60°C -40 to 75°C (-T)	-25 to 60°C -40 to 75°C (-T)	-40 to 75°C	-25 to 60°C -40 to 75°C (-T)	-25 to 60°C -40 to 75°C (-T)	-40 to 75°C
IP Rating	IP30	IP30	IP68	IP30	IP30	IP68

Contact us if you need the following:

- Wireless access points to establish hotspots
- Wireless clients to connect Ethernet devices to a hotspot
- Wireless protocol gateways to connect Modbus devices to a hotspot
- Wireless device servers to connect serial devices to a hotspot
- Wireless antennas and other accessories to support different deployment scenarios



