

Item no.: 385524

AWK-3131A-M12-RCC-EU - 802.11n railway onboard indoor single radio access pointclient, EU band, IP30, -

from 1.276,86 EUR

Item no.: 385524
shipping weight: 1.00 kg
Manufacturer: MOXA



 [Product Description](#)

802.11n railway onboard indoor single radio access point/client, EU band, IP30, -25 to 60°C operating temperature
WLAN Interface
WLAN Standards: 802.11a/b/g/n; 802.11i
Wireless Security: Modulation Type: DSSS OFDM
802.11b: CCK @ 11/5.5 Mbps
802.11b: DQPSK @ 2 Mbps
802.11b: DBPSK @ 1 Mbps
802.11a/g: 64QAM @ 54/58 Mbps
802.11a/g: 16QAM @ 36/24 Mbps
802.11a/g: QPSK @ 18/12 Mbps
802.11a/g: BPSK @ 9/6 Mbps
802.11n: 64QAM @ 300 Mbps to BPSK @ 6.5 Mbps
Frequency Band for EU (20 MHz operating channels): 2.412 to 2.472 GHz (13 channels)
5.180 to 5.240 GHz (4 channels)
5.260 to 5.320 GHz (4 channels)
5.500 to 5.700 GHz (11 channels)
Wireless Security: SSID broadcast enable/disable
WEP encryption (64-bit and 128-bit)
WPA/WPA2-Personal
WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES)
Transmission Rate: 802.11b: 1 to 11 Mbps
802.11a/g: 6 to 54 Mbps
802.11n: 6.5 to 300 Mbps
Transmitter Power for 802.11a: 23±1.5 dBm @ 6 to 24 Mbps
21±1.5 dBm @ 36 Mbps
20±1.5 dBm @ 48 Mbps
18±1.5 dBm @ 54 Mbps
Transmitter Power for 802.11n (5 GHz): 23±1.5 dBm @ MCS0 20 MHz
20±1.5 dBm @ MCS1 20 MHz
20±1.5 dBm @ MCS2 20 MHz
20±1.5 dBm @ MCS3 20 MHz
19±1.5 dBm @ MCS4 20 MHz
18±1.5 dBm @ MCS5 20 MHz
18±1.5 dBm @ MCS6 20 MHz
18±1.5 dBm @ MCS7 20 MHz
23±1.5 dBm @ MCS8 20 MHz
20±1.5 dBm @ MCS9 20 MHz
20±1.5 dBm @ MCS10 20 MHz
19±1.5 dBm @ MCS11 20 MHz
19±1.5 dBm @ MCS12 20 MHz
19±1.5 dBm @ MCS13 20 MHz
18±1.5 dBm @ MCS14 20 MHz
18±1.5 dBm @ MCS15 40 MHz
Transmitter Power for 802.11b: 26±1.5 dBm @ 1 Mbps
26±1.5 dBm @ 2 Mbps
26±1.5 dBm @ 5.5 Mbps
25±1.5 dBm @ 11 Mbps
Transmitter Power for 802.11g: 23±1.5 dBm @ 6 to 24 Mbps
21±1.5 dBm @ 36 Mbps
19±1.5 dBm @ 48 Mbps
18±1.5 dBm @ MCS11 20 MHz
19±1.5 dBm @ MCS12 20 MHz
19±1.5 dBm @ MCS13 20 MHz
18±1.5 dBm @ MCS14 20 MHz
18±1.5 dBm @ MCS15 20 MHz
23±1.5 dBm @ MCS0 20 MHz
20±1.5 dBm @ MCS1 20 MHz
20±1.5 dBm @ MCS2 20 MHz
20±1.5 dBm @ MCS3 20 MHz
19±1.5 dBm @ MCS4 20 MHz
18±1.5 dBm @ MCS5 20 MHz
18±1.5 dBm @ MCS6 20 MHz
18±1.5 dBm @ MCS7 20 MHz
23±1.5 dBm @ MCS8 20 MHz
20±1.5 dBm @ MCS9 20 MHz
20±1.5 dBm @ MCS10 20 MHz
19±1.5 dBm @ MCS11 20 MHz
19±1.5 dBm @ MCS12 20 MHz
19±1.5 dBm @ MCS13 20 MHz
18±1.5 dBm @ MCS14 20 MHz
18±1.5 dBm @ MCS15 40 MHz
Receiver Sensitivity for 802.11a (measured at 5.680 GHz): Typ. -90 @ 6 Mbps
Typ. -88 @ 9 Mbps
Typ. -88 @ 12 Mbps
Typ. -85 @ 18 Mbps
Typ. -81 @ 24 Mbps
Typ. -78 @ 36 Mbps
Typ. -74 @ 48 Mbps
Typ. -74 @ 54 Mbps
Receiver Sensitivity for 802.11n (5 GHz; measured at 5.680 GHz): Typ. -88 dBm @ MCS0 20 MHz
Typ. -85 dBm @ MCS1 20 MHz
Typ. -82 dBm @ MCS2 20 MHz
Typ. -79 dBm @ MCS3 20 MHz
Typ. -76 dBm @ MCS4 20 MHz
Typ. -71 dBm @ MCS5 20 MHz
Typ. -70 dBm @ MCS6 20 MHz
Typ. -69 dBm @ MCS7 20 MHz
Typ. -95 dBm @ MCS8 20 MHz
Typ. -91 dBm @ MCS9 20 MHz
Typ. -87 dBm @ MCS10 20 MHz
Typ. -80 dBm @ MCS11 20 MHz
Typ. -78 dBm @ MCS12 20 MHz
Typ. -74 dBm @ MCS13 20 MHz
Typ. -71 dBm @ MCS14 20 MHz
Typ. -84 dBm @ MCS15 20 MHz
Receiver Sensitivity for 802.11b (measured at 2.437 GHz): Typ. -93 dBm @ 1 Mbps
Typ. -93 dBm @ 2 Mbps
Typ. -93 dBm @ 5.5 Mbps
Typ. -88 dBm @ 11 Mbps
Receiver Sensitivity for 802.11g (measured at 2.437 GHz): Typ. -88 dBm @ 6 Mbps
Typ. -86 dBm @ 9 Mbps
Typ. -85 dBm @ 12 Mbps
Typ. -85 dBm @ 18 Mbps
Typ. -85 dBm @ 24 Mbps
Typ. -82 dBm @ 36 Mbps
Typ. -78 dBm @ 48 Mbps
Typ. -74 dBm @ 54 Mbps
Receiver Sensitivity for 802.11n (2.4 GHz; measured at 2.437 GHz): Typ. -89 dBm @ MCS0 20 MHz
Typ. -85 dBm @ MCS1 20 MHz
Typ. -85 dBm @ MCS2 20 MHz
Typ. -82 dBm @ MCS3 20 MHz
Typ. -78 dBm @ MCS4 20 MHz
Typ. -74 dBm @ MCS5 20 MHz
Typ. -72 dBm @ MCS6 20 MHz
Typ. -70 dBm @ MCS7 20 MHz
Typ. -95 dBm @ MCS8 20 MHz
Typ. -90 dBm @ MCS9 20 MHz
Typ. -87 dBm @ MCS10 20 MHz
Typ. -83 dBm @ MCS11 20 MHz
Typ. -80 dBm @ MCS12 20 MHz
Typ. -74 dBm @ MCS13 20 MHz
Typ. -71 dBm @ MCS14 20 MHz
Typ. -69 dBm @ MCS15 20 MHz
Typ. -87 dBm @ MCS0 40 MHz
Typ. -83 dBm @ MCS1 40 MHz
Typ. -83 dBm @ MCS2 40 MHz
Typ. -80 dBm @ MCS3 40 MHz
Typ. -76 dBm @ MCS4 40 MHz
Typ. -73 dBm @ MCS5 40 MHz
Typ. -69 dBm @ MCS6 40 MHz
Typ. -67 dBm @ MCS7 40 MHz
Typ. -93 dBm @ MCS8 40 MHz
Typ. -88 dBm @ MCS9 40 MHz
Typ. -85 dBm @ MCS10 40 MHz
Typ. -82 dBm @ MCS11 40 MHz
Typ. -78 dBm @ MCS12 40 MHz
Typ. -73 dBm @ MCS13 40 MHz
Typ. -69 dBm @ MCS14 40 MHz
Typ. -67 dBm @ MCS15 40 MHz
WLAN Operation Mode: Access point, Client, Client-Router, Sniffer
Antenna Connectors: QMA Ethernet Interface
PoE Ports (10/100/1000BaseT(X), M12 A-coded 8-pin female connector): 1 Standards: IEEE 802.3 for 10BaseT
IEEE 802.3u for 100BaseT
IEEE 802.3af for PoE
IEEE 802.1Q for VLAN Tagging
10/100/1000BaseT(X) Ports (M12 A-coded 8-pin female connector): 1, M12 A-coded 8-pin female connector, 10/100/1000BaseT(X) auto negotiation speed, F/H duplex mode, auto MDI/MDI-X connection
Ethernet Software Features Management: General: Proxy ARP, DNS, HTTP, HTTPS, IP, ICMP, SNMP, TCP, UDP, RADIUS, SNMP, DHCPAP-only: ARP, BOOTP, DHCP Security: RADIUS Firewall Filter: MAC/IP Protocol/Port-based
Serial Interface Console Port: RS-232 (RJ45-type)
LED Indicators: PWR1, PWR2, PoE, FAULT, STATE, SIGNAL, Client, WLAN, LAN Input/Output Interface
Digital Inputs: 2+13 to +30 V for state 1+3 to -30 V for state 0
Max. input current: 8 mA
Alarm Contact Channels: Relay output with current carrying capacity of 1 A @ 24 VDC
Buttons: Reset button
Physical Characteristics Housing: Metall IP Rating: IP30
Dimensions: 52.9 x 151.9 x 127.4 mm (2.08 x 5.98 x 5.02 in)
Weight: 850 g (1.87 lb)
Installation: DIN-rail mounting, Wall mounting (with optional kit)
Power Parameters Input Current: 0.67 A @ 12 VDC, 0.17 A @ 48 VDC
Input Voltage: 12 to 48 VDC, Redundant dual inputs, 48 VDC Power-over-Ethernet
Power Connector: 1 removable 10-contact terminal block(s)
Power Consumption: Maximum 8.03 W
Reverse Polarity Protection: Supported
Environmental Limits Operating Temperature: Standard Models: -25 to 60°C (-13 to 140°F)
Storage Temperature (package included): -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)
Standards and Certifications EMC: EN 55032/24
EMI: CISPR 32, FCC Part 15B Class B EMS: IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV
IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m
IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV
IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV
IEC 61000-4-6 CS: 10 V
IEC 61000-4-8 PFM
Railway: EN 50155, EN 50121-4
Railway Fire Protection: EN 45545-2
Radio: EN 300 328, EN 301 893, MIC, FCC ID SLE-WAPN008, IDA Safety: UL 60950-1, IEC 60950-1, EN 60950-1 (LVD)
MTBF Time: 742,649 hrs
Standards: Telcordia SR332

Specifications

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