

Item no.: 385471

AWK-3131A-M12-RTG-JP-T - 802.11n railway access point for indoor use with a radio

from **1.213,61 EUR**

Item no.: 385471
shipping weight: 1.00 kg
Manufacturer: MOXA



 [Product Description](#)

Moxa's field-proven wireless LAN products enable operators to manage inter-car and inter-train communications with increased efficiency and deploy helpful on-board multimedia services that enhance passenger safety and comfort.802.11n Railway Onboard Single Radio Access Point/Client, M12, JP-Band, IP30, -40 to 75°C operating temperature/WLAN Interface- WLAN Standards802.11a/b/g/n802.11i Wireless Security- Modulation TypeDSSSOFDM802.11b: CCK @ 11/5.5 Mbps802.11b: DQPSK @ 2 Mbps802.11b: DBPSK @ 1 Mbps802.11a/g: 64QAM @ 54/48 Mbps802.11a/g: 16QAM @ 36/24 Mbps802.11a/g: QPSK @ 18/12 Mbps802.11a/g: BPSK @ 9/6 Mbps802.11n: 64QAM @ 300 Mbps to BPSK @ 6.5 Mbps- Frequency Band for JP (20 MHz operating channels)2.412 to 2.484 GHz (14 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 SecuritySSID broadcast enable/disableWEP encryption (64-bit and 128-bit)WPA/WPA2-PersonalWPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES)- Transmission Rate802.11b: 1 to 11 Mbps802.11a/g: 6 to 54 Mbps802.11n: 6.5 to 300 Mbps- Transmitter Power for 802.11a23±1.5 dBm @ 6 to 24 Mbps21±1.5 dBm @ 36 Mbps20±1.5 dBm @ 48 Mbps18±1.5 dBm @ 54 Mbps- Transmitter Power for 802.11n (5 GHz)23±1.5 dBm @ MCS0 20 MHz20±1.5 dBm @ MCS1 20 MHz20±1.5 dBm @ MCS2 20 MHz20±1.5 dBm @ MCS3 20 MHz19±1.5 dBm @ MCS4 20 MHz18±1.5 dBm @ MCS5 20 MHz18±1.5 dBm @ MCS6 20 MHz18±1.5 dBm @ MCS7 20 MHz23±1.5 dBm @ MCS8 20 MHz20±1.5 dBm @ MCS9 20 MHz20±1.5 dBm @ MCS10 20 MHz20±1.5 dBm @ MCS11 20 MHz19±1.5 dBm @ MCS12 20 MHz19±1.5 dBm @ MCS13 20 MHz18±1.5 dBm @ MCS14 20 MHz18±1.5 dBm @ MCS15 40 MHz- Transmitter Power for 802.11b26±1.5 dBm @ 1 Mbps26±1.5 dBm @ 2 Mbps26±1.5 dBm @ 5.5 Mbps25±1.5 dBm @ 11 Mbps- Transmitter Power for 802.11g23±1.5 dBm @ 6 to 24 Mbps21±1.5 dBm @ 36 Mbps19±1.5 dBm @ 48 Mbps18±1.5 dBm @ 54 Mbps- Transmitter Power for 802.11n (2.4 GHz)23±1.5 dBm @ MCS0 20 MHz21±1.5 dBm @ MCS1 20 MHz21±1.5 dBm @ MCS2 20 MHz19±1.5 dBm @ MCS3 20 MHz19±1.5 dBm @ MCS4 20 MHz19±1.5 dBm @ MCS5 20 MHz18±1.5 dBm @ MCS6 20 MHz18±1.5 dBm @ MCS7 20 MHz23±1.5 dBm @ MCS8 20 MHz21±1.5 dBm @ MCS9 20 MHz21±1.5 dBm @ MCS10 20 MHz21±1.5 dBm @ MCS11 20 MHz20±1.5 dBm @ MCS12 20 MHz19±1.5 dBm @ MCS13 20 MHz18±1.5 dBm @ MCS14 20 MHz18±1.5 dBm @ MCS15 20 MHz23±1.5 dBm @ MCS0 40 MHz20±1.5 dBm @ MCS1 40 MHz20±1.5 dBm @ MCS2 40 MHz20±1.5 dBm @ MCS3 40 MHz19±1.5 dBm @ MCS4 40 MHz19±1.5 dBm @ MCS5 40 MHz18±1.5 dBm @ MCS6 40 MHz18±1.5 dBm @ MCS7 40 MHz23±1.5 dBm @ MCS8 40 MHz20±1.5 dBm @ MCS9 40 MHz20±1.5 dBm @ MCS10 40 MHz20±1.5 dBm @ MCS11 40 MHz19±1.5 dBm @ MCS12 40 MHz19±1.5 dBm @ MCS13 40 MHz18±1.5 dBm @ MCS14 40 MHz18±1.5 dBm @ MCS15 40 MHz- Receiver Sensitivity for 802.11a (measured at 5.680 GHz)Type. -90 @ 6 MbpsType. -88 @ 9 MbpsType. -88 @ 12 MbpsType. -85 @ 18 MbpsType. -81 @ 24 MbpsType. -78 @ 36 MbpsType. -74 @ 48 MbpsType. -74 @ 54 Mbps- NoteReceiver Sensitivity for 802.11n (5 GHz; measured at 5.680 GHz)Type. -88 dBm @ MCS0 20 MHzType. -85 dBm @ MCS1 20 MHzType. -82 dBm @ MCS2 20 MHzType. -79 dBm @ MCS3 20 MHzType. -76 dBm @ MCS4 20 MHzType. -71 dBm @ MCS5 20 MHzType. -70 dBm @ MCS6 20 MHzType. -69 dBm @ MCS7 20 MHzType. -95 dBm @ MCS8 20 MHzType. -91 dBm @ MCS9 20 MHzType. -87 dBm @ MCS10 20 MHzType. -80 dBm @ MCS11 20 MHzType. -78 dBm @ MCS12 20 MHzType. -74 dBm @ MCS13 20 MHzType. -72 dBm @ MCS14 20 MHzType. -71 dBm @ MCS15 20 MHzType. -84 dBm @ MCS0 40 MHzType. -81 dBm @ MCS1 40 MHzType. -77 dBm @ MCS2 40 MHzType. -75 dBm @ MCS3 40 MHzType. -71 dBm @ MCS4 40 MHzType. -67 dBm @ MCS5 40 MHzType. -64 dBm @ MCS6 40 MHzType. -63 dBm @ MCS7 40 MHzType. -90 dBm @ MCS8 40 MHzType. -85 dBm @ MCS9 40 MHzType. -82 dBm @ MCS10 40 MHzType. -81 dBm @ MCS11 40 MHzType. -77 dBm @ MCS12 40 MHzType. -73 dBm @ MCS13 40 MHzType. -71 dBm @ MCS14 40 MHz- NoteType. -68 dBm @ MCS15 40 MHz- Receiver Sensitivity for 802.11b (measured at 2.437 GHz)Type. -93 dBm @ 1 MbpsType. -93 dBm @ 2 MbpsType. -93 dBm @ 5.5 MbpsType. -88 dBm @ 11 Mbps- Receiver Sensitivity for 802.11g (measured at 2.437 GHz)Type. -88 dBm @ 6 MbpsType. -86 dBm @ 9 MbpsType. -85 dBm @ 12 MbpsType. -85 dBm @ 18 MbpsType. -85 dBm @ 24 MbpsType. -82 dBm @ 36 MbpsType. -78 dBm @ 48 MbpsType. -74 dBm @ 54 Mbps- Receiver Sensitivity for 802.11n (2.4 GHz; measured at 2.437 GHz)Type. -89 dBm @ MCS0 20 MHzType. -85 dBm @ MCS1 20 MHzType. -85 dBm @ MCS2 20 MHzType. -82 dBm @ MCS3 20 MHzType. -78 dBm @ MCS4 20 MHzType. -74 dBm @ MCS5 20 MHzType. -72 dBm @ MCS6 20 MHzType. -70 dBm @ MCS7 20 MHzType. -95 dBm @ MCS8 20 MHzType. -90 dBm @ MCS9 20 MHzType. -87 dBm @ MCS10 20 MHzType. -83 dBm @ MCS11 20 MHzType. -80 dBm @ MCS12 20 MHzType. -74 dBm @ MCS13 20 MHzType. -69 dBm @ MCS14 20 MHzType. -69 dBm @ MCS15 20 MHzType. -87 dBm @ MCS0 40 MHzType. -83 dBm @ MCS1 40 MHzType. -83 dBm @ MCS2 40 MHzType. -80 dBm @ MCS3 40 MHzType. -76 dBm @ MCS4 40 MHzType. -73 dBm @ MCS5 40 MHzType. -69 dBm @ MCS6 40 MHzType. -67 dBm @ MCS7 40 MHzType. -93 dBm @ MCS8 40 MHzType. -88 dBm @ MCS9 40 MHzType. -85 dBm @ MCS10 40 MHzType. -82 dBm @ MCS11 40 MHzType. -78 dBm @ MCS12 40 MHzType. -73 dBm @ MCS13 40 MHzType. -69 dBm @ MCS14 40 MHzType. -67 dBm @ MCS15 40 MHz- WLAN Operation Mode Access point, Client, Client-Router, Sniffer- Antenna Connectors QMAEthernet Interface- PoE Ports (10/100BaseT(X), M12 D-coded 4-pin female connector) 1, AWK-3131A-M12-RTG only- StandardsIEEE 802.3 for 10BaseTIEEE 802.3u for 100BaseT(X)IEEE 802.3af for PoEIEEE 802.1Q for VLAN Tagging- 10/100BaseT(X) Ports (M12 D-coded 4-pin female connector) 1, 10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection (AWK-3131A-M12-RTG only)- 100BaseFX Ports (single-mode SC connector) 1, AWK-3131A-SSC-RTG onlyEthernet Software Features- ManagementGeneral: Proxy ARP, DNS, HTTP, HTTPS, IP, ICMP, SNTp, TCP, UDP, RADIUS, SNMP, PPPoE, DHCP, BOOTP, DHCP, STP/RSTP (IEEE 802.1D/w)- Security RADIUSFirewall- Filter MAC/IP Protocol/Port-basedSerial Interface- Console Port RS-232 (RJ45-type)LED Interface- LED Indicators PWR1, PWR2, PoE*, FAULT, STATE, SIGNAL, CLIENT, WLAN, LAN (AWK-3131A-M12-RTG only),100M (AWK-3131A-SSC-RTG only)*PoE is only available for the AWK-3131A-M12-RTGInput/Output Interface- Digital Inputs2+13 to +30 V for state 1+3 to -30 V for state 0Max. input current: 8 mA- Alarm Contact Channels Relay output with current carrying capacity of 1 A @ 24 VDC- Buttons Reset buttonPhysical Characteristics- Housing Metal- 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 CurrentAWK-3131A-M12-RTG: 0.85 A @ 12 VDC, 0.22 A @ 48 VDCAWK-3131A-SSC-RTG: 1.0 A @ 12 VDC, 0.27 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 AWK-3131A-M12-RTG: Maximum 10.5 W- Reverse Polarity Protection SupportedEnvironmental Limits- Operating Temperature Wide Temp. Models: -40 to 75°C (-40 to 167°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 61000-6-2/-6-4- EMI CISPR 32, FCC Part 15B Class B- EMSIEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kVIEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/mIEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kVIEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kVIEC 61000-4-6 CS: 10 VIEC 61000-4-8- Railway EN 50155, EN 50121-4- Railway Fire Protection EN 45545-2- Radio EN 301 489-1/17, EN 300 328, EN 301 893, MIC, FCC ID SLE-WAPN008, SRRC, NCC, IDA- Safety UL 60950-1, IEC 60950-1, EN 60950-1 (LVD)MTBF- TimeAWK-3131A-M12-RTG: 552,454 hrsAWK-3131A-SSC-RTG: 528,478 hrs- Standards Telcordia SR332

Specifications

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All details, up-to-date prices and availability

