

WDR-3124Aシリーズ

産業用802.11n/HSPAワイヤレスルータ



機能とメリット

- 汎用GSM/GPRS/HSPAセルラー通信
- 2.4 GHz/5 GHzデュアルバンド300 Mbps Wi-Fi通信
- 内蔵4ポートギガビットイーサネットスイッチ
- デュアル電源入力と内蔵DI/DOサポートを備えた産業用デザイン
- デュアルSIMによるセルラーリンク冗長性の確保
- 信頼性の高いセルラー接続を実現するGuaranLink
- 干渉から保護するためのアンテナおよび電源絶縁設計

認証



製品紹介

WDR-3124A産業用ワイヤレスルータは、柔軟性に富んだワイヤレスネットワーク接続を提供する802.11nとセルラー技術を兼ね備えています。WDR-3124Aには、あらゆる過酷な産業環境に適した内蔵アンテナと絶縁電源が搭載されています。DINレールによるマウント機能、広い動作温度範囲に対応したモデル、およびIP30保護等級対応の筐体を用意することで、WDR-3124Aはあらゆる産業用ワイヤレスアプリケーション向けに便利で信頼性の高いソリューションを提供します。

WLANとセルラー接続

- 高速ワイヤレス接続（最大300 Mbpsのデータレート）
- WLAN AP/クライアント - ルータ動作モードをサポート
- GSM/GPRS/HSPA接続用の汎用セルラーバンドをサポート

効率的なアイソレーション設計と冗長設計

- 電源冗長化用のデュアル電源入力
- セルラー接続冗長化用にデュアルSIMに対応
- 無線干渉保護のためのアンテナアイソレーション
- 電源絶縁保護のための電源アイソレーション

仕様

Cellular Interface

Cellular Standards	GSM, GPRS, EDGE, UMTS, HSPA
Band Options	UMTS/HSPA 800 MHz / 850 MHz / 900 MHz / 1900 MHz / 2100 MHz Universal quad-band GSM/GPRS/EDGE 850 MHz / 900 MHz / 1800 MHz / 1900 MHz
HSPA Data Rates	14.4 Mbps DL, 5.76 Mbps UL
EDGE Data Rates	237 kbps DL, 237 kbps UL
GPRS Data Rates	85.6 kbps DL, 85.6 kbps UL
No. of SIMs	2
SIM Control Voltage	3 V
Cellular Antenna Connectors	1 SMA female

WLAN Interface

WLAN Standards	802.11a/b/g/n 802.11i Wireless Security
Spread Spectrum	DSSS, OFDM
Modulation Type	802.11b: CCK @ 11/5.5 Mbps 802.11b: DQPSK @ 2 Mbps 802.11b: DBPSK @ 1 Mbps 802.11a/g: 64QAM @ 54/48 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)	2.142 to 2.472 GHz (13 channels) 5.180 to 5.240 GHz (4 channels)
Frequency Band for US (20 MHz operating channels)	2.412 to 2.462 GHz (11 channels) 5.180 to 5.240 GHz (4 channels) 5.745 to 5.825 GHz (5 channels)
Wireless Security	WEP encryption (64-bit and 128-bit) WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES) WPA/WPA2-Personal SSID broadcast enable/disable
Transmission Rate	802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps 802.11n HT20: 6.5 to 150 Mbps (MCS0 to MCS7) 802.11n HT40: 150 to 300 Mbps (MCS8 to MCS15)
Transmitter Power for 802.11a	20±1.5 dBm @ 6 to 24 Mbps 19±1.5 dBm @ 36 Mbps 16±1.5 dBm @ 48 Mbps 15±1.5 dBm @ 54 Mbps
Transmitter Power for 802.11b	23±1.5 dBm @ 1 Mbps 20±1.5 dBm @ 5 Mbps 19±1.5 dBm @ 11 Mbps
Transmitter Power for 802.11g	20±1.5 dBm @ 6 to 24 Mbps 19±1.5 dBm @ 36 Mbps 18±1.5 dBm @ 48 Mbps 17±1.5 dBm @ 54 Mbps
Transmitter Power for 802.11n (2.4 GHz)	20±1.5 dBm @ MCS0/8 20 MHz 20±1.5 dBm @ MCS0/8 40 MHz 16±1.5 dBm @ MCS7/15 20 MHz 16±1.5 dBm @ MCS7/15 40 MHz
Transmitter Power for 802.11n (5 GHz)	19±1.5 dBm @ MCS0/8 20 MHz 18±1.5 dBm @ MCS0/8 40 MHz 14±1.5 dBm @ MCS7/15 20 MHz 14±1.5 dBm @ MCS7/15 40 MHz
Receiver Sensitivity for 802.11a	-92 dBm @ 6 Mbps -89 dBm @ 9 Mbps -85 dBm @ 12 Mbps -82 dBm @ 18 Mbps -80 dBm @ 24 Mbps -76 dBm @ 36 Mbps -74 dBm @ 48 Mbps -72 dBm @ 54 Mbps
Receiver Sensitivity for 802.11b	-90 dBm @ 1 Mbps -88 dBm @ 2 Mbps -86 dBm @ 5.5 Mbps -84 dBm @ 11 Mbps
Receiver Sensitivity for 802.11g	-85 dBm @ 6 Mbps

	-84 dBm @ 9 Mbps -83 dBm @ 12 Mbps -82 dBm @ 18 Mbps -80 dBm @ 24 Mbps -76 dBm @ 36 Mbps -70 dBm @ 48 Mbps -70 dBm @ 54 Mbps
Receiver Sensitivity for 802.11n (2.4 GHz)	-70 dBm @ MCS7 20 MHz -68 dBm @ MCS15 20 MHz -65 dBm @ MCS7 40 MHz -63 dBm @ MCS15 40 MHz
Receiver Sensitivity for 802.11n (5 GHz)	-70 dBm @ MCS7 20 MHz -67 dBm @ MCS15 20 MHz -68 dBm @ MCS7 40 MHz -66 dBm @ MCS15 40 MHz
WLAN Antenna Connector	2 RP-SMA female

GPS Interface

GPS Antenna Connector	1 SMA female
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Ethernet Interface

10/100/1000BaseT(X) Ports (RJ45 connector)	4
Standards	IEEE 802.3 for 10BaseT IEEE 802.3ab for 1000BaseT(X) IEEE 802.3u for 100BaseT(X)
Total Port Count	4

LED Interface

LED Indicators	PWR1, PWR2, STATUS, FAULT, CELLULAR SIGNAL, WIFI SIGNAL, WLAN, SIM1, SIM2, 2G, 3G, GPS
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Input/Output Interface

Alarm Contact Channels	1, Relay output with current carrying capacity of 1 A @ 24 VDC
Buttons	Reset button
Digital Input Channels	2
Digital Inputs	+13 to +30 V for state 1 3 to -30 V for state 0

Ethernet Software Features

Management	ARP, DDNS, DHCP Client, DNS, HTTP, SMTP, SNMPv1/v2c/v3, TCP/IP, Telnet, UDP, Web Console, Wireless Search Utility, Serial Console, Telnet Console, Remote SMS Control, OnCell Central Manager, GuaranLink
Security	HTTPS, IPsec, SSH
Time Management	SNTP
Routing	NAT, Port forwarding
Firewall	Filter: MAC, IP protocol, port-based

IPsec VPN

Authentication	MD5 and SHA (SHA-256) PSK/X.509/RSA
Concurrent VPN Tunnels	Max. 5 IPsec VPN tunnels

Protocols	IPsec
Encryption	DES, 3DES, AES, MD5, SHA-1, DH2, DH5
Physical Characteristics	
Housing	Aluminum
IP Rating	IP30
Dimensions	66.3 x 124 x 90 mm (2.61 x 4.88 x 3.54 in)
Weight	1,280 g (2.82 lb)
Environmental Limits	
Operating Temperature	Standard Models: 0 to 55°C (32 to 131°F) Wide Temp. Models: -30 to 70°C (-22 to 158°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Power Parameters	
Power Connector	Terminal block
Input Voltage	Redundant dual inputs, 12 to 48 VDC
Input Current	0.7 A @ 12 VDC, 0.2 A @ 48 VDC
Reverse Polarity Protection	Supported
Standards and Certifications	
Safety	EN 60950-1, UL 60950-1
EMC	EN 61000-6-2/-6-4
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Radio Frequency	EN 301 489-1, EN 301 489-7, EN 301 511, EN 301 908, EN 300 328, EN 301 893, FCC ID SLE-WAPN005
MTBF	
Time	382,851 hrs
Standards	Telcordia SR332
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/jp/warranty
Package Contents	
Device	1 x WDR-3124A Series wireless router ¹
Installation Kit	1 x DIN-rail kit

1. An activated SIM card (not included) must be provided by a third party Cellular Service Provider.

A-CRF-RMNM-L1-300	N-type (male) to RP SMA (male), LMR-195 Lite cable, 3 m
A-CRF-SMSF-R3-100	Cellular magnetic-base SMA connector with 1-meter RF cable
A-CRF-RMNM-L1-900	N-type (male) to RP SMA (male), LMR-195 Lite cable, 9 m
CRF-N0117SA-3M	N-type (male) to RP SMA (male), CFD200 cable, 3 m
A-CRF-RMNM-L1-600	N-type (male) to RP SMA (male), LMR-195 Lite cable, 6 m
CRF-SMA(M)/N(M)-300	N-type (male) to SMA (male), CFD200 cable, 3 m

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