



Unlicensed Salinas IPLINK 24G

- 1Gpbs, 24GHz
- 3.5–112 MHz channels
- Asymmetric channels
- AES 256, Sync Eth, PTP
- 1x ETH, 1x SFP, 1x USB
- Solar Ready–22W
- Each unit tested –30°C to +55°C
- Full outdoor, easy installation
- Interference & obstacles tolerant
- Wi-Fi management
- Tools (Android, iOS)

PRODUCT APPLICATION:

Salinas IPLINK 24G is a high-speed point to point microwave link, ideal for establishing robust links in the most challenging conditions.

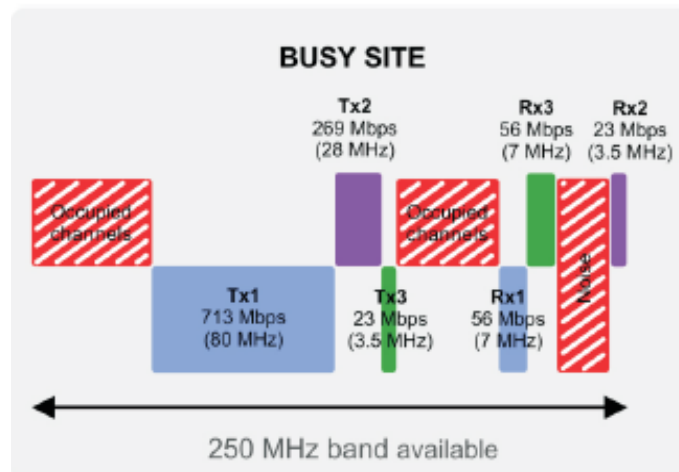
This full outdoor software defined radio with Linux OS, is designed for high performance links with maximum reliability, exceptional system gain and resistance to disturbances. All relevant state of the art concepts have been carefully implemented without compromise.

Salinas IPLINK 24G is well proved within the market since 2009 in thousands of installations in tens of countries from the poles to the equator.

It is used by Internet Service providers as well as global Telco operators for both, backbone and last mile microwave links.

Salinas IPLINK 24G

Max. Speed	1Gbps, 2048 QAM, 112MHz
Speed / 56MHz	540Mbps, 4096QAM
Bands	24GHz to 24.25GHz
Channel size (MHz)	3.5, 5, 7, 10, 14, 20, 28, 40, 56, 80, 100, 112
Asymmetric channels	Yes
Channel duplex spacing	Flexible, min 18MHz between channel edges.
Modulations	QPSK_S, QPSK, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM, 1024QAM, 2048QAM, 4096QAM



Easy to Install and Maintain

- Full outdoor unit with aluminum casing
- Direct mounting to parabolic antenna
- Simple signal polarization change through unit rotation
- Built in spectrum analyser for free channel search
- RSS voltage output for antenna alignment
- HW button for factory and customer settings
- Wi-Fi connection between unit and mobile phone
- Android and iOS App. Antenna alignment (RSS & SNR, display and acoustic notification) and link management

Configuration & Diagnostics

- Web interface or CLI via SSH
- Non intrusive management via SUB using either ETH/USB adapter or Wi-Fi/USB adapter with DHCP
- SNMP including Traps and Informs
- Automatic detection of unit polarization
- Constellation diagram of the received signal
- Temperature, power voltage, RSS, MSE, BER data rates, output power status and history available as text or charts

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FREQUENCY RANGE	24.00 – 24.25 GHz		
CHANNEL SPACING	3.5, 5, 7, 10, 14, 20, 28, 40, 56, 80, 100, 112 MHz Channel duplex		
CHANNEL DUPLEX SPACING	Flexible, min.18 MHz between channel edges		
MODULATION/SPEED/SENSITIVITY	5 MHz	40MHz	100 MHz
QSPK_5	3.8 Mbps / -97 dBm	34 Mbps /-89 dBm	86.6 Mbps / -85dBm
16 QAM	14 Mbps / -87 dBm	113 Mbps / -79dBm	299 Mbps / -75 dBm
64 QAM	21 Mbps / -81 dBm	185 Mbps / -72dBm	479 Mbps / -68 dBm
256 QAM	28 Mbps / -75 dBm	253 Mbps / -66 dBm	653 Mbps / -62 dBm
1024 QAM	33 Mbps / -69 dBm	318 Mbps / -60 dBm	820 Mbps / -56 dBm
2048 QAM (7 - 112 MHz)		348 Mbps / -57 dBm	895 Mbps / -53 dBm
4096 QAM (14 - 56 MHz)		377 Mbps / -54 dBm	
GROSS DATA RATE	2.7 – 1002 Mbps	FEC	LDPC, RS
ACM	Hitless	RF Output Power	-30 to +10 dBm
ATPC	Yes	MTU	10240 B
LATENCY (RFC 2544)	268 μ s (64B/366 Mbps); 313 μ s (1518 B/366 Mbps)173 μ s (64B/1002 Mbps); 198 μ s (1518 B/1002 Mbps)		
SYNCHRONIZATION	Synchronous Ethernet; 1588v2 transparent clock		
PRIMARY POWER	PoE active 37 – 60 VDC, IEEE 802.3at; PoE passive 20 – 60 VDC; DC 20 – 60 VDC; floating		
POWER CONSUMPTION	typ. 22.5 W (w/o SFP)		
ETHERNET	1x 10/100/1000 Base-T Auto MDI/MDIX / RJ45		
SFP	1x 10/100/1000 Base-T/1000Base-SX/1000Base-LX (power max. 1.25 W)		
USB	USB 2.0 / Host A	RSS voltage	Two contact sockets
IP CODE (Ingress Protection)	IP66	MTBF	> 750.000 hours (> 85 years)
OPERATING TEMPERATURE	- 30 to + 55°C	Operating humidity	5 to 95% non-condensing
SURGE IMMUNITY	4 kV acc. EN 61000-4-5	ESD resistance	8 kV acc. EN 61000-4-2
CASING	Rugged die-cast aluminium	Size	6.3 H x 9.6 W x 9.6 D in
WEIGHT	5.7 lbs	Mounting	FOD, direct mounting to antenna
DIAGNOSTIC TOOLS	Spectrum analyzer, Pinger, Constellation diagram		
HISTORY CHARTS	Temperature, Power voltage, RSS, MSE, BER, Data rate, RF Output power		
REAL TIME MONITORING	RSS, MSE, BER	Statistics	RMON counters for all interfaces

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ANTENNA ALIGNMENT	RSS voltage, RAY Tools, web	SNMP	v2c including configurable TRAPs
MANAGEMENT	HTTP, HTTPS, SSH, Telnet, RAYTools App		
ACCESS ACCOUNTS	3 levels (Guest, Admin, Super)	Encryption	AES256, 192, 128
RADIO PARAMETERS	ETSI EN 300 440 V 2.1.1, ETSI EN 302 217-2 V 3.1.1		
EMC	ETSI EN 301 489-1 V1.9.2, ETSI EN 301 489-4 V2.2.1		
SAFETY	EN 62368-1:2014	FCC	CFR 47 part 15