

**LP-ATRX545945ai1 ATREX Series 5.4 – 5.9 GHz Licensed Band 45dBm EIRP MIMO
PTP / PTMP Ethernet Radio with integrated 18dBi MIMO antenna**

LPATRX545945ai1_SS_ENB01W

Features

- Frequency Band:
5.4 to 5.9GHz Licensed.
- Selectable 5/10/15/20/30/40/50
Channel bandwidths
- Output Power EIRP =45 dBm
- RF output power: 27dBm (6Mbps),
21dBm (54Mbps), 27dBm (MCS0),
20dBm (MCS7).
- TCP Throughputs:
*24 Mbps in 5 MHz channel
Bandwidth.
*51 Mbps in 10 MHz channel
Bandwidth.
*77 Mbps in 15 MHz channel
Bandwidth.
*104 Mbps in 20 MHz channel
Bandwidth.
*158 Mbps in 30 MHz channel
Bandwidth.
*225 Mbps in 40 MHz channel
Bandwidth.
*268 Mbps in 50 MHz channel
Bandwidth.
- Modulation: OFDM.
- Access: CSMA/CA.
- Uses internal 18 dBi MIMO Panel
Antenna.
- Robust IP-68 Enclosure for rough
environments.
- Operating Temperature range:
-30°C~55°C.
- Relative Humidity up to 95%
without Condensation.
- Web based Management and
Setup.
- Ethernet Port surge Protection
included.
- Operating Modes:
PTP Bridge / PTMP bridge.
- QoS.
- Security.
- VLAN (IEEE 802.1Q).
- Proprietary PoE powered:
X=1: 100 ~ 264 VAC 50-60Hz,
48VDC output Converter, with 30W
max., and 48 VDC PoE Injector.



**LP-ATRX545945ai1
ATREX Series 5.4 – 5.9 GHz Licensed Band 45dBm EIRP MIMO
PTP / PTMP Ethernet Radio with integrated 18dBi MIMO antenna.**

The ATREX Series **LP-ATRX545945ai1** is a MIMO PTP / PTMP Ethernet Radio mainly used for Last Mile service to high speed clients in the 5.4 – 5.9 GHz Licensed Band. With an integrated MIMO 18 dBi Panel Antenna and Power of 500mW (27dBm) and EIRP of 45dBm, plenty to establish a high throughput Ethernet link.

Available with selectable 5/10/15/20/30/40/50 MHz Channel Bandwidths and able to deliver a corresponding 24/51/77/104/158/225/268 Mbps TCP throughput.

Uses OFDM modulation and CSMA/CA for access and PtP and PtmP as base technologies.

The **LP-ATRX545945ai1** management and setup is web based, using MIB II SNMP Agents, and is able to perform under **Win7 / Win8 / Mac OSX10 / Android 4 OS's**.



A Specifications

Radio	
Frequency	5.4 a 5.9 GHz
Channel Bandwidth	5/10/15/20/30/40/50 MHz
Output Power	27dBm (6Mbps), 21dBm (54Mbps), 27dBm (MCS0), 20dBm (MCS7)
EIRP	45dBm
Receive Sensitivity (BER 1E10-6)	-70dBm @ MCS7, -90dBm @ MCS0, -90dBm @ 6Mbps
TCP Throughput	24 Mbps in a 5 MHz channel Bandwidth 51 Mbps in a 10 MHz channel Bandwidth 77 Mbps in a 15 MHz channel Bandwidth 104 Mbps in a 20 MHz channel Bandwidth 158 Mbps in a 30 MHz channel Bandwidth 225 Mbps in a 40 MHz channel Bandwidth 268 Mbps in a 50 MHz channel Bandwidth
Frequency Stability	±10 ppm
Modulation	OFDM
Access	CSMA/CA
Interfaces	
Ethernet	IEEE802.3 / 802.3u / 802.3a (1000 Base-T)
Ethernet Port Surge Protection	As per the IEC61000-4-5 standard
Manageability	
Management and setup	Web-based
SNMP agents	MIB II
Protocol	TCP/IP, UDP, HTTP, SNMP
Operating System	Win7 / Win8 / Mac OSX10 / Android 4
Operating Mode	PTP Bridge / PTMP bridge
DHCP supports	DHCP Client
QoS	Peer to Peer link speed limit / CPE uplink speed limit
Others	VLAN (IEEE 802.1Q)
Security	
Data Encryption	WEP (64/128/152 bits) / WPA-PSK / WPA-TKIP / WPA2 (AES 128bits)
Authentication	802.1x Auth. (EAP)
Authorization	Mac Access Control
Advanced security	Disable Broadcast SSID / Wireless Client Security Separation
Integrated Antenna	
Frequency Range	5.4 a 5.9 GHz
VSWR	≤ 1.5
Gain	18dBi
Polarization	Linear Vertical and Horizontal (± 90°)
Beamwidth	Port1: H/E –Plan 14°/15°
	Port2: H/E – Plan 15°/14°
Max. Power	10 Watt
Isolation	≤ 25dB

Environmental	
Operating Temperature	-30°C~55°C
Storage Temperature	-30°C~70°C
Relative Humidity	95% non-condensing
Power Supply Options	
• *Nota: LP-ATRX545945ai1 Radios are basically 48 VDC powered. X=1: 100~264 VAC 50~60Hz, 48VDC output Converter, 30 W max. and a 48 VDC PoE Injector.	
Physical	
Dimensions	197 (L) × 197 (W) × 70 (H) mm
Weight	0.8 Kg
Warranty	
One (1) Year against manufacture or parts defects.	

E How to order

LP-ATRX545945ai1

ATREX Series 5.4 to 5.95 GHz Licensed Band EIRP 45dBm MIMO PTP / PTMP Ethernet Radio with integrated 18dBi MIMO antenna, with 100~264 VAC 50~60Hz to 48VDC output Converter, 30 W max and a 48 VDC PoE Injector.