



TRTH2350-34

5GHz 3Watts OFDM-TDMA

Outdoor backhaul

PTMP / Long distance / High capacity

5/10/20/40 MHz Fractional bandwidth

TRTH2350-34 is a 5GHz 3Watts (with 5GHz OFDM balanced-Amp technology) high capacity OFDM-TDMA outdoor radio for Ultra - long distance (Max Distance > 80Km) PTP/PTMP backhaul solution.

5/10/20/40 MHz adjustable channel bandwidth provides the flexibility of deployment channel plan or high capacity backhaul, and variable capacities for different applications --- the highest truly accumulated throughput(uplink + downlink) is up to 50Mbps.

It utilizes TDD (TDMA) technology which allowing the balanced uplink / downlink tunnels on a single channel. This radio is primarily designed to provide standard Ethernet interface in a wireless link between distant sites.

TRTH2350-34 series has powerful security mechanism --- Except the proprietary protocol, it also supports WEP-128 bits and AES-256 bits encryption. All these functions make the network much more secure and reliable.

Product Highlights

➤ **5GHz OFDM Balanced-Amp Technology**

TRTH2350-34 has best performance with up to 3Watts output power based on 5GHz OFDM balanced-Amp technology, and that makes TRTH2350-34 to be the most cost effective 5GHz Ultra-long distance outdoor backhaul solution.

➤ **Time-Division Multiple Access(TDMA) technique**

TDMA tech can avoid the packets collision and send the packets more efficient and stable to improve the capacity and quality of data transmission in long distance (Max distance > 80Km) or NLOS (Near/ Non-Line of sight) situation.

➤ **Effective spectrum utility / variable capacities**

TRTH2350-34 has 4 channel bandwidths (5/10/20/40 MHz) for optional, which is adjustable via software. This function provides flexibilities of channel plan and variable capacities for different applications

➤ **Low EIRP for long distance and high capacity transmission**

TRTH2350-34 improves the throughput performance up to 50~70% in long distance transmission, that means the system has the same performance with lower EIRP (smaller antenna) compare to other standard wifi products.

➤ **Proprietary Security**

TRTH2350-34 uses proprietary protocol, so it can't connect to other standard wifi products. It also provides WEP-128 bits and AES-256 bits to build the highest security mechanism to prevent the malicious attacking from the internet.

➤ **Antenna Alignment**

The site survey function provides the RSSI (signal strength) info to indicate the status of antenna alignment.

- **Time-Division Multiple Access (TDMA)**
- **5GHz 3 Watts Long Distance Backhaul**
- **5GHz OFDM Balanced-Amp Tech**
- **IP-68 Water & Dust Resistant**
- **IEC61000-4-5 Surge Protection**
- **Outstanding MTBF**
- **Max Distance > 80KM**

APPLICATIONS

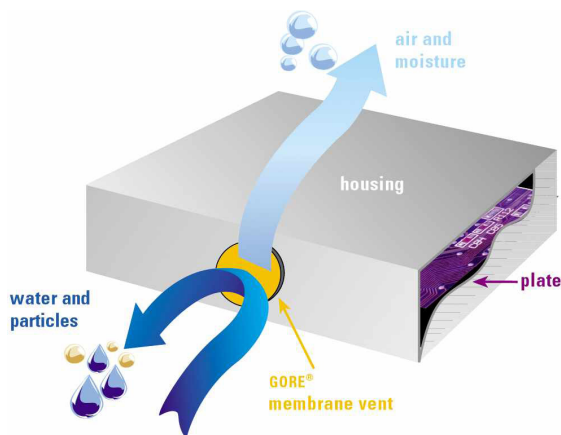
- **High capacity backhaul in long distances**
- **5/10/20/40MHz adjustable channel bandwidth**
- **Cost effective alternative to wired network environment**
- **Redundant link between buildings**
- **Dedicated ISP connections for high-reliability subscribers**
- **Enterprises or Institutions LAN and PBX extension**

Specifications

RADIO		
Frequency Range	5150-5875MHz	
Output Power / Rx Sensitivity	64QAM (54Mbps)	31(±1.5) dBm / -72 dBm
	16QAM (36Mbps)	33(±1.5) dBm / -78 dBm
	BPSK (18Mbps)	34(±1.5) dBm / -84 dBm
	QPSK (6Mbps)	34(±1.5) dBm / -90 dBm
Modulation	OFDM-TDMA	
Duplex	TDD	
Channel Bandwidth	5 / 10 / 20 / 40 MHz	
Frequency Stability	±2 ppm	
Range	Max Distance > 80Km	
INTERFACES		
RF	N-Jack	
Ethernet	IEEE 802.3(10 Base-T) / IEEE 802.3u(100 Base-Tx)	
RSSI (Receive Signal Strength Indication)		
CPE Mode	Site Survey	
Antenna Alignment	RSSI	
MANAGEABILITY		
Management and setup	Web-based configuration	
Network Architecture	PTP / PTMP	
Operating System	Windows 98 / 2000 / NT / XP	
SNMP agents	MIB II	
Protocol	TCP/IP, IPX/SPX, NetBEUI	
DHCP support	DHCP Client	
SECURITY		
Data Encryption	WEP-128 bits / AES-256 bits	
Advanced Security	Group Name / Proprietary protocol	
ENVIRONMENT		
Operating Temperature	-30~70℃	
Storage Temperature	-30~70℃	
Humidity	95% non-condensing	
POWER SUPPLY & CONSUMPTION		
AC 100-264V, 50-60Hz, DC 48V		
Power Consumption : 38 Watts		
PHYSICAL		
Dimension	259 (L) * 250 (W) *75 (H) ; mm	
Weight	2.3Kg	
WARRANTY		
1 Year		
ADVANCE		
Base Station Scanning	RSSI	
Watch dog		
PLACE OF ORIGIN		
Made in R.O.C Taiwan		
ORDERING INFORMATION		
ANT5023-P	5.1~5.9GHz 23dBi V:7degrees / H:7 degrees directional panel antenna	
ANT5029-D	5.1~5.9GHz 29dBi V:6degrees / H:6 degrees directional dish antenna	
ANT5032-D	5.1~5.9GHz 32dBi V:4degrees / H:4 degrees directional dish antenna	

The Membrane Vents Enhance the Reliability, Quality and Image of Your Products.

GORE™ Membrane Vents are designed to enhance the ingress protection (IP) of gasketed enclosures. The microporous expanded polytetrafluoroethylene (ePTFE) membrane continuously allows the free passage of gases and vapors, equalizing the pressure differential between the enclosure and ambient before it builds to the point that a seal is compromised. Water, dust, dirt, cleaning agents and most oils are repelled by the oleophobic membrane, thereby protecting expensive and sensitive electronics.



MEMBRANE VENT

- Water proof and dust proof to IP69K, protecting sensitive electronics.
- High airflow allows pressure equalization to prevent stress on enclosure seals, ultimately lowering enclosure design and manufacturing costs.
- Water and oil repellant ePTFE membrane is inert, non-shedding, chemically resistant, UV resistant and enclosed in a tough polyamide housing to ensure a long trouble-free service life even in extreme conditions.
- The microporous structure of the ePTFE membrane even keeps salt crystals from passing, minimizing electrical malfunctions caused by salt corrosion.
- Moisture vapor permeable to help aid in condensation and fogging reduction.
- Screw-in housing with silicone O-ring for versatile and easy installation.