



TB5HD-29E

802.11a/n/ac 5G Industrial Grade, Long-distance Wireless Transmission Device



TDMA



Intelligent
Rate Control



ACK Time-out
Adjustment



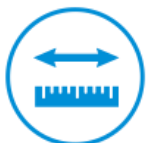
2x2 MiMo



High
Throughput



PTP



Long Distance
Coverage



Gigabit
Ethernet



Hardware
Watchdog



POE+

Summary

TB5HD-29E is a new generation of industrial grade 802.11ac 2x2 AP for outdoor applications. It has built-in Creatcomm's unique VTrans wireless technology, the technology combines industry-leading core technology, including MIMO-OFDM, TDMA, AutoACK, etc., to ensure high throughput and reliable wireless signal coverage under various application scenarios.

Product Feature

- Support 802.11ac standard, and 2x2 MIMO technology.
- Transmission distance: 0~20km.
- Max transmission throughput: 867Mbps.
- Integrated VTrans technology.
- Support multiple operation modes: Access point, Station, WDS Access point, WDS Station.
- Support point-to-point, point-to-multipoint connection.
- Unique RF and antenna design enables long-range transmission.
- Wireless multimedia optimization technology guarantees video/Traffic shaping.
- Support dual backup firmware.
- Standard 802.3at Power over Ethernet (PoE+).
- Support for remote control and management.

Specifications

| Specifications | | |
|---------------------|---------------------------|---|
| Hardware | CPU | QCA9557+QCA9882 |
| | DDR& Memory | 128MB DDR2,16MB Flash |
| | Power requirement | 48V PoE |
| | Installation method | Pole mounting |
| | Protection level | IP66 |
| | Working temperature | -40°C~70°C |
| | Storage temperature | -40°C~85°C |
| | Working humidity | 5%~95%RH Non-condensing |
| | Equipment size | 183×183×43 mm |
| | Physical Interface | 10/100/1000M Base-TX (Cat. 5/5E, RJ-45) x1 |
| | Wireless | Protocol |
| Operating Frequency | | 5180~5320, 5745~5825MHz(More Non-standard channels are available,4920~6100MHz) |
| Antenna size | | Ø600 mm |
| Antenna gain | | 29dBi |
| Beam Width | | V:6°, H:6° |
| Software | Operating mode | Access point, Station, WDS Access point, WDS Station |
| | Encryption authentication | WPA/WPA2, hidden SSID, IP/MAC filtering |
| | Network mode | Bridge/ Router |
| | Configuration management | Support web page configuration, support AC remote management, support SNMP management |
| | software upgrade | Support web page upgrade and support AC remote upgrade |

RF Index

| Transmit Power | | | | Receiving Sensitivity | | | |
|----------------|-----------|-------|-----------|-----------------------|-----------|--------|-----------|
| | Rate | Power | Tolerance | | Rate | Power | Tolerance |
| 11a | 6Mbps | 27dBm | +/-2dBm | 11a | 6Mbps | -85dBm | +/-2dBm |
| | 54Mbps | 24dBm | +/-2dBm | | 54Mbps | -70dBm | +/-2dBm |
| 11n | HT20_MCS0 | 27dBm | +/-2dBm | 11n | HT20_MCS0 | -85dBm | +/-2dBm |
| | HT20_MCS7 | 23dBm | +/-2dBm | | HT20_MCS7 | -65dBm | +/-2dBm |
| | HT40_MCS0 | 27dBm | +/-2dBm | | HT40_MCS0 | -82dBm | +/-2dBm |
| | HT40_MCS7 | 23dBm | +/-2dBm | | HT40_MCS7 | -62dBm | +/-2dBm |
| 11ac | HT20_MCS0 | 27dBm | +/-2dBm | 11ac | HT20_MCS0 | -85dBm | +/-2dBm |
| | HT20_MCS8 | 22dBm | +/-2dBm | | HT20_MCS8 | -60dBm | +/-2dBm |
| | HT40_MCS0 | 27dBm | +/-2dBm | | HT40_MCS0 | -82dBm | +/-2dBm |
| | HT40_MCS9 | 21dBm | +/-2dBm | | HT40_MCS9 | -55dBm | +/-2dBm |
| | HT80_MCS0 | 27dBm | +/-2dBm | | HT80_MCS0 | -79dBm | +/-2dBm |
| | HT80_MCS9 | 21dBm | +/-2dBm | | HT80_MCS9 | -52dBm | +/-2dBm |

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