

CPE-5800 5Ghz Outdoor CPE

AirRunner™ Wireless CPE Series

Today's wireless market, more specifically the outdoor wireless market, continues to demand higher transmit power, greater dependability and advanced feature sets. To that end, Zcomax has released it's latest line of customer premise equipment to utilize the 5GHz unlicensed spectrum, the CPE-5800.

The CPE-5800 is an all-in-one weatherproof unit with high output power and all the essential features for point to point and access point to client connections. The 23dBi antenna compliments the high output of the proven Atheros AR5414A based radio to boost the output power up to 48dB and increase the received sensitivity down to -113dB, allowing for greater coverage and sistance. Web based configuration adds ease of deployment and remote access and the WPA / WPA2 / Access Control functions add another layer of security to your network infrastructure.

For more details such as availability, samples and pricing in regards to the CPE-5800 or any other of our wireless products, please contact a sales representative today.



CPE-5800 Highlights

Key Features

- IEEE 802.11a compliant
- Up to 48dBm Tx output power
- PoE support
- WPA / WPA2 wireless security
- Integrated 23dBi antenna
- RoHS compliant
- Multiple operational modes including AP, CPE and point-to-point
- Adjustable output power
- Adjustable bandwidth: 20Mhz / 10Mhz / 5Mhz

CPE-5800 at a Glance

| | |
|----------------------------|-------------------------------|
| Chipset | Atheros AR5414A (single chip) |
| Transmit Power | 48 dBm @ 6 Mbps data rate |
| Receive Sensitivity | -113 dBm @ 6 Mbps data rate |
| Antenna | Integrated 23dBi |

| IEEE | Radio | RoHS | Interface |
|------|-------|------|-----------|
| | | | |

| Radio Specification | | | | |
|---------------------------|----------------------------------|--------------------|-------------------|--------|
| Chipset | Atheros AR5414A | | | |
| Antenna | 23dBi panel antenna | | | |
| Modulation | OFDM: BPSK, QPSK, 16-QAM, 64-QAM | | | |
| RF Frequency | USA (FCC) | Europe (ETSI) | Japan (TELEC) | |
| | 5.15GHz – 5.35GHz | 5.15GHz – 5.35GHz | 5.15GHz – 5.25GHz | |
| | 5.47GHz ~ 5850GHz | 5.47GHz – 5.725GHz | 5.25GHz ~ 5.35GHz | |
| RF Output Power (± 1.5dB) | Data rate | U-NII 1 | U-NII 2 | UNII 3 |
| | 6 ~ 24Mbps: | 43dBm | 46dBm | 48dBm |
| | 36Mbps: | 42dBm | 45dBm | 47dBm |
| | 48Mbps: | 41dBm | 44dBm | 46dBm |
| | 54Mbps: | 40dBm | 41dBm | 43dBm |
| Receiver Sensitivity | 802.11a | | | |
| | ≤ -113dBm @ 6Mbps | | | |
| | ≤ -111dBm @ 9Mbps | | | |
| | ≤ -109dBm @ 12Mbps | | | |
| | ≤ -107dBm @ 18Mbps | | | |
| | ≤ -105dBm @ 24Mbps | | | |
| | ≤ -101dBm @ 36 Mbps | | | |
| | ≤ -98dBm @ 48 Mbps | | | |
| ≤ -96dBm @ 54 Mbps | | | | |

| Firmware Specification | |
|-----------------------------|---|
| Operating Mode Alternatives | Base Station / Access Point |
| | CPE – client mode |
| | Point to point, Point to multi-point |
| Standards Compliance | IEEE 802.11a |
| Management | Web-based configuration and management interface |
| | Telnet support |
| | Web for firmware upgrade and configuration backup and restore |
| Wireless LAN features | Output power control |
| | Bandwidth control (Selectable 20,10 and 5Mhz) |
| | VBS / VLAN profiles |
| Wireless LAN Security | WPA / WPA2 support |
| | Access Control (MAC filtering) |
| Diagnostics Capabilities | Log and Statistics |

| Physical Specification | |
|------------------------|---|
| Dimensions | 39cm x 39cm x 11cm (15 ¾" x 15 ¾" x 4") |
| Working Temperature | -20°C to 55°C, 90% relative humidity (non-condensing) |
| Power | PoE IEEE 802.3af Support |
| Interface | Ethernet |
| Antenna Type | 23dBi integrated |
| LED | Power, Ethernet link, Wireless link, Signal level |

| Warranty | |
|-----------------|---|
| Warranty Period | 1 Year limited warranty from the date of purchase |
| Warranty Plan | Zcomax Repair / Replacement Program |