



Точка доступа AirEngine 6760R-51E

6760R-51E

Описание

Ключевые особенности:

- 1 порта 5G RJ45 с поддержкой PoE
- 1 порт 1G RJ45 с поддержкой PoE
- 1 порт 10G SFP+
- Пропускная способность 5,95 Гбит/с
- MU-MIMO 2.4 ГГц: 4x4:4 и 5 ГГц: 4x4:4
- До 1024 пользователя

Описание серии:

Высокопроизводительные точки доступа AirEngine 6760R-51 и AirEngine 6760R-51E нового поколения для установки на открытом воздухе полностью отвечают требованиям стандарта **Wi-Fi 6 (802.11ax)**. Модель AirEngine 6760R-51 имеет встроенные антенны, а для модели AirEngine 6760R-51E используются внешние антенны. Устройства поддерживают пространственное кодирование **8x8 MU-MIMO**, скорость передачи **до 5,95 Гбит/с**. Устройства размещены в промышленном корпусе с классом защиты IP68, который предотвращает проникновение влаги, пыли, песка и грязи, и оснащены средствами защиты от перенапряжения номиналом 6 кВ/6 кА.

Универсальные устройства AirEngine 6760R-51 и AirEngine 6760R-51E оснащены оптическим и электрическим портами восходящей связи, благодаря чему клиенты могут выбрать режим развертывания в соответствии со своими потребностями. Этим достигается защита и высокая окупаемость вложенных в оборудование инвестиций. Такие достоинства делают устройства идеальными для установки в городских скверах, на пешеходных улицах и в парках развлечений.

Общие

Частотный диапазон Wi-Fi, ГГц	2.4 5
Поддержка MIMO, в диапазоне 2.4ГГц	4x4
Поддержка MIMO, в диапазоне 5ГГц	4x4
SFP	Да
PoE	802.3at 802.3bt
Портов LAN	2



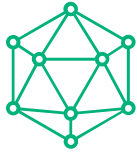
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Стандарты Wi-Fi IEEE 802.11	802.11b 802.11ac (Wi-Fi 5) 802.11n (Wi-Fi 4) 802.11a 802.11ax (Wi-Fi 6) 802.11g
Роуминг	802.11k/v/r
Уличный корпус	Да
Тип антенны	внешняя

Доп. описание

Fat/Fit AP mode

Item	Description
WLAN features	<p>Compliance with IEEE 802.11ax and compatibility with IEEE 802.11a/b/g/n/ac/ac Wave 2</p> <p>Providing 8 spatial streams, achieving up to 5.95 Gbps for the device</p> <p>Maximum ratio combining (MRC)</p> <p>Space time block code (STBC)</p> <p>Cyclic Delay Diversity (CDD)/Cyclic Shift Diversity (CSD)</p> <p>Beamforming</p> <p>DL/UL MU-MIMO</p> <p>DL/UL OFDMA</p> <p>Compliance with 1024-QAM and compatibility with 256-QAM/64-QAM/16-QAM/8-QAM/QPSK/BPSK</p> <p>Target wake time (TWT)*</p> <p>Low-density parity-check (LDPC)</p> <p>Frame aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx)</p> <p>802.11 dynamic frequency selection (DFS)</p> <p>Short guard interval (GI) in 20 MHz, 40 MHz, 80 MHz, and 160 MHz modes</p> <p>Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding. Automatic and manual rate adjustment (the rate is adjusted automatically by default)</p> <p>WLAN channel management and channel rate adjustment</p> <p>NOTE</p> <p>For detailed management channels, see the Country Code & Channel Compliance Table.</p> <p>Automatic channel scanning and interference avoidance</p> <p>Service set identifier (SSID) hiding</p> <p>Signal sustain technology (SST)</p> <p>Unscheduled automatic power save delivery (U-APSD)</p> <p>Control and Provisioning of Wireless Access Points (CAPWAP) in Fit AP mode</p> <p>Automatic login in Fit AP mode</p> <p>Extended Service Set (ESS) in Fit AP mode</p> <p>Multi-user CAC</p> <p>Advanced cellular coexistence (ACC), minimizing the impact of interference from cellular networks</p> <p>802.11k and 802.11v smart roaming</p> <p>802.11r fast roaming (≤ 50 ms)</p>
Network features	<p>Compliance with IEEE 802.3ab</p> <p>Auto-negotiation of the rate and duplex mode and automatic switchover between the Media Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X)</p> <p>Compliance with IEEE 802.1q</p> <p>SSID-based VLAN assignment</p>



	<ul style="list-style-type: none">VLAN trunk on uplink Ethernet portsManagement channel of the AP uplink port in tagged and untagged modeDHCP client, obtaining IP addresses through DHCPTunnel data forwarding and direct data forwardingApplication identification and QoS classification when AP local forwarding (also called direct forwarding), which can significantly improve voice quality for applications such as Skype, QQ, and WeChatSTA isolation in the same VLANIPV4/IPV6 access control lists (ACLs)Link Layer Discovery Protocol (LLDP)Uninterrupted service forwarding upon CAPWAP channel disconnection in Fit AP modeUnified authentication on the AC in Fit AP modeAC dual-link backup in Fit AP modeNetwork Address Translation (NAT) in Fat AP modeIPv6 in Fit AP modeSoft Generic Routing Encapsulation (GRE)IPv6 Source Address Validation Improvements (SAVI)Multicast Domain Name Service (mDNS) gateway protocol
QoS features	<ul style="list-style-type: none">WMM parameter management for each radioWMM power savingPriority mapping for upstream packets and flow-based mapping for downstream packetsQueue mapping and schedulingUser-based bandwidth limitingAdaptive bandwidth management (automatic bandwidth adjustment based on the user quantity and radio environment) to improve user experienceAirtime schedulingAir interface HQoS scheduling
Security features	<ul style="list-style-type: none">Open system authenticationWEP authentication/encryption using a 64-bit, 128-bit, 152-bit or 192-bit* encryption keyWPA2-PSK authentication and encryption (WPA2 personal edition)WPA2-802.1X authentication and encryption (WPA2 enterprise edition)WPA3-SAE authentication and encryption (WPA3 personal edition)*WPA3-802.1X authentication and encryption (WPA3 enterprise edition)*WPA-WPA2 hybrid authenticationWPA2-WPA3 hybrid authentication*WPA2-PPSK authentication and encryption in Fit AP modeWAPI authentication and encryption*Wireless intrusion detection system (WIDS) and wireless intrusion prevention system (WIPS), including rogue device detection and countermeasure, attack detection and dynamic blacklist, and STA/AP blacklist and whitelist802.1x authentication, MAC address authentication, and Portal authenticationDHCP snoopingDynamic ARP Inspection (DAI)IP Source Guard (IPSG)802.11w Protected Management Frames (PMFs)
Maintenance features	<ul style="list-style-type: none">Unified management and maintenance on the AC in Fit AP mode Automatic login and configuration loading, and plug-and-play (PnP) in Fit AP modeBatch upgrade in Fit AP modeTelnetSTelnet using SSH v2SFTP using SSH v2Remote wireless O&M through the Bluetooth console port



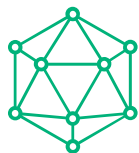
	<p>Web local AP management through HTTP or HTTPS in Fat AP mode</p> <p>Real-time configuration monitoring and fast fault location using the NMS</p> <p>SNMP v1/v2/v3 in Fat AP mode</p> <p>System status alarm</p> <p>Network Time Protocol (NTP) in Fat AP mode</p>
BYOD	<p>NOTE</p> <p>The AP supports bring your own device (BYOD) only in Fit AP mode.</p> <p>Identifies the device type according to the organizationally unique identifier (OUI) in the MAC address.</p> <p>Identifies the device type according to the user agent (UA) information in an HTTP packet.</p> <p>Identifies the device type according to DHCP options.</p> <p>The RADIUS server delivers packet forwarding, security, and QoS policies according to the device type carried in the RADIUS authentication and accounting packets.</p>
Location service	<p>NOTE</p> <p>The AP supports the locating service only in Fit AP mode.</p> <p>Locates Wi-Fi terminals.</p> <p>Working with the location server to locate rogue devices.</p> <p>Supports Bluetooth positioning.</p>
Spectrum analysis	<p>NOTE</p> <p>The AP supports spectrum analysis only in Fit AP mode.</p> <p>Identification of more than eight interference sources including Bluetooth devices, microwave ovens, cordless phones, ZigBee devices, game controllers, 2.4 GHz/5 GHz wireless video and audio devices, and baby monitors</p> <p>Working with the location server to locate interference sources and perform spectrum analysis on them</p>

Cloud-based management mode

Item	Description
WLAN features	<p>Compliance with IEEE 802.11ax and compatibility with IEEE 802.11a/b/g/n/ac/ac Wave 2</p> <p>Providing 8 spatial streams, achieving up to 5.95 Gbps for the device</p> <p>Maximum ratio combining (MRC)</p> <p>Space time block code (STBC)</p> <p>Cyclic Delay Diversity (CDD)/Cyclic Shift Diversity (CSD)</p> <p>Beamforming</p> <p>DL/UL MU-MIMO</p> <p>DL/UL OFDMA</p> <p>Compliance with 1024-QAM and compatibility with 256-QAM/64-QAM/16-QAM/8-QAM/QPSK/BPSK</p> <p>Low-density parity-check (LDPC)</p> <p>Frame aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx)</p> <p>802.11 dynamic frequency selection (DFS)</p> <p>Priority mapping and packet scheduling based on a Wi-Fi Multimedia (WMM) profile to implement</p> <p>priority-based data processing and forwarding</p> <p>WLAN channel management and channel rate adjustment</p> <p>NOTE</p> <p>For detailed management channels, see the Country Code & Channel Compliance Table.</p> <p>Automatic channel scanning and interference avoidance</p> <p>Service set identifier (SSID) hiding</p> <p>Signal sustain technology (SST)</p> <p>Unscheduled automatic power save delivery (U-APSD)</p>



	Automatic login
Network features	<ul style="list-style-type: none">Compliance with IEEE 802.3abAuto-negotiation of the rate and duplex mode and automatic switchover between the Media Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X)Compliance with IEEE 802.1qSSID-based VLAN assignmentVLAN trunk on uplink Ethernet portsManagement channel of the AP uplink port in tagged and untagged modeDHCP client, obtaining IP addresses through DHCPTunnel data forwarding and direct data forwardingSTA isolation in the same VLANIPV4/IPV6 access control lists (ACLs)Link Layer Discovery Protocol (LLDP)Uninterrupted service forwarding upon CAPWAP channel disconnection in Fit AP modeUnified authentication on the AC in Fit AP modeAC dual-link backup in Fit AP modeNetwork Address Translation (NAT) in Fat AP modeIPv6 in Fit AP modeSoft Generic Routing Encapsulation (GRE)IPv6 Source Address Validation Improvements (SAVI)
QoS features	<ul style="list-style-type: none">WMM parameter management for each radioWMM power savingPriority mapping for upstream packets and flow-based mapping for downstream packetsQueue mapping and schedulingUser-based bandwidth limitingAirtime schedulingAir interface HQoS scheduling
Security features	<ul style="list-style-type: none">Open system authenticationWEP authentication/encryption using a 64-bit, 128-bit, 152-bit or 192-bit* encryption keyWPA2-PSK authentication and encryption (WPA2 personal edition)WPA2-802.1X authentication and encryption (WPA2 enterprise edition)WPA3-SAE authentication and encryption (WPA3 personal edition)*WPA3-802.1X authentication and encryption (WPA3 enterprise edition)*WPA-WPA2 hybrid authenticationWPA2-WPA3 hybrid authentication*802.1x authentication, MAC address authentication, and Portal authenticationDHCP snoopingDynamic ARP Inspection (DAI)IP Source Guard (IPSG)
Maintenance features	<ul style="list-style-type: none">Unified management and maintenance on the Agile ControllerAutomatic login and configuration loading, and plug-and-play (PnP)Batch upgradeTelnetSTelnet using SSH v2SFTP using SSH v2Remote wireless O&M through the Bluetooth console portWeb local AP management through HTTP or HTTPSReal-time configuration monitoring and fast fault location using the NMSSystem status alarmNetwork Time Protocol (NTP)



nag
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