

Overview

Huawei AirEngine 8760R-X1 is a next-generation flagship outdoor access point (AP) in compliance with the Wi-Fi 6 standard. It stands out with excellent outdoor coverage performance, IP68 waterproof and dustproof design, and strong surge protection capability. The AP provides uplink optical and electrical ports, allowing customers to select different deployment modes and saving customers' investment. These strengths make the AP ideal for high-density scenarios such as stadiums, squares, pedestrian streets, and amusement parks.

Quick Specification

Table 1 shows the quick specification.

Model	AirEngine 8760R-X1
Part Number	02353GSF, 02353GSF-001
Description	AirEngine8760R-X1 (11ax outdoor, 8+8 dual bands, smart antenna, BLE, PSE)
Dimensions without packaging	Diameter x length: 165 mm x 387 mm (6.50 in. x 15.24 in.)
Weight without packaging	4.15 kg (9.15 lb)
Maximum power consumption	53.2 W (excluding PoE OUT)
Maximum heat dissipation	181.5 BTU/hour (without PoE OUT)

Figure 1 shows the appearance of AirEngine 8760R-X1.



Get More Information

Do you have any question about the AirEngine 8760R-X1 (02353GSF, 02353GSF-001)?

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Specification

AirEngine 8760R-X1 Datasheet	
Model	AirEngine 8760R-X1
Part Number	02353GSF, 02353GSF-001
Description	AirEngine8760R-X1 (11ax outdoor, 8+8 dual bands, smart antenna, BLE, PSE)
Installation Type	Wall, Pole
Dimensions without packaging (H x W x D) [mm(in.)]	Diameter x length: 165 mm x 387 mm (6.50 in. x 15.24 in.)
Weight without packaging [kg(lb)]	4.15 kg (9.15 lb)
Storage	NAND Flash 512 MB; NOR Flash 16 MB
Console port	BLE console
Maximum power consumption [W]	53.2 (excluding PoE OUT)
Maximum heat dissipation [BTU/hour]	181.5 (without PoE OUT)
Power supply mode	PoE
Input voltage range [V]	PoE: 802.3bt
Service port surge protection	6 kA in common mode
Maximum PoE output power [W]	15.4 W
Maximum number of physical ports on the entire device	10GE (RJ45) x 1, 10M/100M/1000M/2.5GE/5GE/10GE auto-sensing GE (RJ45) x 1, 10M/100M/1000M auto-sensing 10GE optical port (SFP+), GE/10GE auto-sensing
Long-term operating temperature [°C(°F)]	-40°C to +65°C (-40°F to +149°F) (From 1800 m to 5000 m [5905.51 ft. to 16404.20 ft.], the maximum temperature of the device decreases by 1°C [1.8°F] for every 300 m [984.25 ft.] increase in altitude.)
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	0% RH to 100% RH
Long-term operating altitude [m(ft.)]	-60 m to +5000 m (-196.85 ft to +16404.20 ft)
Atmospheric pressure [kPa]	53kPa - 106kPa ETSI 300 019-2-3
Ingress protection level (dustproof/waterproof)	IP68
Ground	Grounding
Wind resistance	67 m/s
USB	Not supported
IoT slot	Not supported
BLE	BLE5.2
Radio number	2





Operating frequency band	2.4GHz,5GHz
MIMO spatial streams	<p>Dual-radio standard mode:</p> <ul style="list-style-type: none"> - Radio 0 (2.4 GHz): 4x4:4 - Radio 1 (5 GHz): 12x12:8 <p>Dual-radio 2G enhanced mode:</p> <ul style="list-style-type: none"> - Radio 0 (2.4 GHz): 8x8:4 (A maximum of four antennas can be used to transmit and receive 802.11b packets.) - Radio 1 (5 GHz): 8x8:8 <p>Dual-radio + independent radio scanning mode:</p> <ul style="list-style-type: none"> - Radio 0 (2.4 GHz): 4x4:4 - Radio 1 (5 GHz): 8x8:8
Wi-Fi standard	2.4 GHz: 802.11b/g/n/ax 5 GHz: 802.11a/n/ac/ac Wave 2/ax
Radio interface	Built-in directional antennas
Antenna gain	2.4G: 10 dBi 5G: 11 dBi BLE: 5 dBi
Beamwidth of the built-in antenna [degrees]	2.4 GHz: - Horizontal plane: 180° @ 6 dB, 70° @ 3 dB - Vertical plane: 40° 5 GHz: - Horizontal plane: 180° @ 6 dB, 100° @ 3 dB - Vertical plane: 20°
Maximum transmit power	2.4 GHz: 33 dBm 5 GHz: 33 dBm (Note: This is the total MIMO radio power, the same as: 2.4 GHz: 24 dBm/chain 5 GHz: 24 dBm/chain) BLE: < 10 dBm
MTBF [year]	60.2
MTTR [hour]	0.5
Frequency stability [ppm]	+/-20
802.3bt power supply description	<p>In 802.3bt Class 8 power supply mode:</p> <p>If the PoE OUT port is not used, no function is restricted. In enhanced dual-radio 2G mode, the 2.4 GHz radio supports 8x8:4 MIMO and a maximum of 20 MHz bandwidth.</p> <p>If the PoE OUT port (supporting only 802.3af) is used, the 10GE electrical port and the SFP+ optical port work as combo ports, and when one of them is working, the other is unavailable. The GE electrical port is available. Other functions are not restricted. In enhanced dual-radio 2G mode, the 2.4 GHz radio supports 8x8:4 MIMO and a maximum of 20 MHz bandwidth.</p> <p>In 802.3bt Class 6 power supply mode:</p> <p>If the PoE OUT port is not used:</p>





	<p>Wi-Fi: The transmit power of radios is not affected.</p> <ul style="list-style-type: none"> - Standard dual-radio mode: 2.4 GHz (4x4) + 5 GHz (12x12:8) - Dual-radio + independent scanning radio mode: 2.4 GHz (4x4) + 5 GHz (8x8) + 5 GHz independent radio scanning - Enhanced dual-radio 2G mode: 2.4 GHz (8x8:4) + 5 GHz (4x4). In this mode, the 2.4 GHz radio supports 8x8:4 MIMO and a maximum of 20 MHz bandwidth. <p>Wired network port: The 10GE electrical port and the SFP+ optical port work as combo ports, and when one of them is working, the other is unavailable. The GE electrical port is available.</p> <p>Other ports: The PoE OUT port is not used.</p> <p>If the PoE OUT port is used:</p> <p>Wi-Fi: The transmit power of radios is automatically adjusted.</p> <ul style="list-style-type: none"> - Standard dual-radio mode: 2.4 GHz (4x4) + 5 GHz (4x4) - Dual-radio + independent scanning radio mode: 2.4 GHz (4x4) + 5 GHz (4x4) + independent radio scanning <p>Wired network port: The 10GE electrical port and the SFP+ optical port are combo ports, and only one of them can be selected. The GE electrical port is available.</p> <p>Other ports: The PoE OUT port (supporting only 802.3af) is used.</p>
<p>802.3at power supply description</p>	<p>Wi-Fi: The transmit power of radios is automatically adjusted.</p> <ul style="list-style-type: none"> - Standard dual-radio mode: 2.4 GHz (4x4) + 5 GHz (4x4) - Dual-radio + independent scanning radio mode: 2.4 GHz (4x4) + 5 GHz (4x4) + independent radio scanning <p>Wired network port: The 10GE electrical port and the SFP+ optical port are combo ports, and only one of them can be selected. The GE electrical port is available.</p> <p>Other ports: The PoE OUT port (supporting only 802.3af) is used.</p>
<p>802.3at power supply description</p>	<p>Wi-Fi: The transmit power of radios is automatically adjusted.</p> <ul style="list-style-type: none"> - Standard dual-radio mode: 2.4 GHz (2x2) + 5 GHz (2x2) - Dual-radio + independent scanning radio mode: 2.4 GHz (2x2) + 5 GHz (2x2) + independent radio scanning <p>Wired network port: The rate of the 10GE electrical port is reduced to GE or lower. The 10GE electrical port and the SFP+ optical port work as combo ports for each other, and when one of them is working, the other is unavailable. The GE electrical port is unavailable.</p>





Other ports:

The PoE OUT port is unavailable.

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WhatsApp Business: +8618057156223

