



Overview

Huawei AirEngine 5760-51 is an access point (AP) in compliance with the Wi-Fi 6 standard. The AP uses built-in smart antennas to ensure always-on Wi-Fi signals for users, significantly enhancing users' wireless network experiences. It is ideal for small- and medium-sized enterprises, airports, stations, stadiums, cafes, and recreation centers.

Quick Specification

Table 1 shows the quick specification.

Model	AirEngine 5760-51
Part Number	02353GES, 02353GES-001
Description	AirEngine5760-51(11ax indoor,2+4 dual bands, smart antenna, USB, IoT Slot, BLE, Optional RTU upgrade to 4+4/2+2+4/2+4+Scan)
Dimensions without packaging	94 mm x 306 mm x 285 mm (3.70 in. x 12.05 in. x 11.22 in.)
Weight without packaging	1.15 kg (2.53 lb)
Maximum power consumption	28.8 (excluding USB and IoT cards)
Maximum heat dissipation	98.3 (without USB or IoT card)

Figure 1 shows the appearance of AirEngine 5760-51.





Get More Information

Do you have any question about the AirEngine 5760-51 (02353GES, 02353GES-001)?

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Specification

AirEngine 5760-51 Datasheet	
Model	AirEngine 5760-51
Part Number	02353GES, 02353GES-001
Description	AirEngine5760-51(11ax indoor,2+4 dual bands, smart antenna, USB, IoT Slot, BLE, Optional RTU upgrade to 4+4/2+2+4/2+4+Scan)
Installation Type	Wall, Ceiling, T-Rail
Dimensions without packaging (H x W x D) [mm(in.)]	Diameter x depth: 220 mm x 51 mm (8.66 in. x 2.01 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	94 mm x 306 mm x 285 mm (3.70 in. x 12.05 in. x 11.22 in.)
Weight without packaging [kg(lb)]	1.15 kg (2.53 lb)
Storage	NAND Flash 512 MB; NOR Flash 16 MB
Console port	BLE console
Maximum power consumption [W]	28.8 (excluding USB and IoT cards)
Maximum heat dissipation [BTU/hour]	98.3 (without USB or IoT card)
Power supply mode	PoE, DC power adapter
Rated input voltage [V]	48 V
Input voltage range [V]	DC: 43.2 V to 57.6 V PoE: 802.3bt/at
Service port surge protection	PoE port: Differential mode (48 V-RTN): 0.5 kV (1.2/50 us, 42 ohms), criterion B Common mode (8 wires to ground): 6 kV (1.2/50 us, 42 ohms), criterion B
Maximum number of physical ports on the entire device	5GE (RJ45) x 1, 10M/100M/1000M/2.5GE/5GE auto-sensing GE (RJ45) x 1, 10M/100M/1000M auto-sensing
Long-term operating temperature [°C(°F)]	-10°C to +50°C (14°F to 122°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 +70°C (-40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
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
Ground	Ground
USB	USB 2.0
IoT slot	IoT card
BLE	BLE5.2
Radio number	2/3
Operating frequency band	2.4GHz,5GHz
MIMO spatial streams	<p>Triple-radio mode:</p> <ul style="list-style-type: none"> - Radio 0 (2.4 GHz): 2x2, maximum bandwidth of 40 MHz - Radio 1 (5 GHz): 2x2 (high frequency band), maximum bandwidth of 80 MHz - Radio 2 (5 GHz): 4x4 (low frequency band), maximum bandwidth of 80 MHz <p>Dual-radio mode:</p> <ul style="list-style-type: none"> - Radio 0 (2.4 GHz): 4x4, maximum bandwidth of 40 MHz - Radio 1 (5 GHz): 4x4, maximum bandwidth 160 MHz
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 smart antennas
Antenna gain	2.4 GHz: 4.5 dBi 5 GHz: 5.5 dBi BLE: 4 dBi
Maximum transmit power	2.4 GHz: 26 dBm 5 GHz: 26 dBm (Note: This is the total MIMO radio power, the same as: 2.4 GHz: 20 dBm/chain 5 GHz: 20 dBm/chain) BLE: < 10 dBm
MTBF [year]	69.7
MTTR [hour]	0.5
Frequency stability [ppm]	+/-20
802.3bt power supply description	<p>For 802.3bt class 6/class 8 power supply:</p> <p>If an RTU license is loaded, no function is restricted.</p> <p>If no RTU license is loaded, Wi-Fi supports only the following mode and other functions are not restricted:</p> <ul style="list-style-type: none"> - Dual-radio mode: 2.4 GHz (2x2) + 5 GHz (4x4) - Triple-radio mode: 2.4 GHz (2x2) + 5 GHz (2x2, high band) + 5 GHz (2x2, low band)
802.3at power supply description	<p>With an RTU license loaded:</p> <p>Wi-Fi:</p> <p>If the USB and IoT card slots are not used, the radio transmit power is not affected.</p> <ul style="list-style-type: none"> - Dual-radio mode: 2.4 GHz (4x4) + 5 GHz (4x4)





	<p>- Triple-radio mode: 2.4 GHz (2x2) + 5 GHz (2x2, high band) + 5 GHz (4x4, low band)</p> <p>- Dual-radio + independent radio scanning mode: 2.4 GHz (2x2) + 5 GHz (4x4) + 5 GHz independent radio scanning</p> <p>If the USB and IoT card slot are both used, the number of spatial streams, transmit power, and bandwidth may be affected. For details, contact the product manager.</p> <p>Wired network port: The speed of the 5GE electrical port is reduced to 2.5GE or lower. (In V200R021C10 and later versions, the GE electrical port is also available in standard dual-radio mode.)</p> <p>Other ports: Either the 5 W USB port or IoT card slot can be used at the same time. The IoT card slot takes precedence. If both of them are used, Wi-Fi can only work in dual-radio mode and the number of spatial streams, transmit power, and bandwidth may be affected. For details, contact the product manager.</p> <p>Without an RTU license loaded: Wi-Fi: If no USB or IoT card slot is used, the radio transmit power is not affected.</p> <p>- Dual-radio mode: 2.4 GHz (2x2) + 5 GHz (4x4)</p> <p>- Triple-radio mode: 2.4 GHz (2x2) + 5 GHz (2x2, high band) + 5 GHz (2x2, low band)</p> <p>If the USB and IoT card slot are both used, the number of spatial streams, transmit power, and bandwidth may be affected. For details, contact the product manager.</p> <p>Wired network port: The speed of the 5GE electrical port is reduced to 2.5GE or lower. (In V200R021C10 and later versions, the GE electrical port is also available in standard dual-radio mode.)</p> <p>Other ports: Either the 5 W USB port or IoT card slot can be used at the same time. The IoT card slot takes precedence. If both of them are used, Wi-Fi can only work in dual-radio mode and the number of spatial streams, transmit power, and bandwidth may be affected. For details, contact the product manager.</p>
<p>DC power supply description</p>	<p>If an RTU license is loaded, no function is restricted.</p> <p>If no RTU license is loaded, Wi-Fi supports only the following mode and other functions are not restricted:</p> <p>- Dual-radio mode: 2.4 GHz (2x2) + 5 GHz (4x4)</p> <p>- Triple-radio mode: 2.4 GHz (2x2) + 5 GHz (2x2, high band) + 5 GHz (2x2, low band)</p>





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