



Base5i

**5 GHz Basestation with 15 dBi
Built-in Antenna**



Overview

Dimensions	355 mm x 124mm x 148 mm (13.98 in. x 4.88 in. x 1.89 in.) (excluding mounting bracket)
Weight	0.83 kg (1.83 lbs) (without packaging materials) 1.61 kg (3.55 lbs) (with packaging materials)
Wi-Fi Standards	Wi-Fi 5 (IEEE 802.11ac) standard, compatible with IEEE 802.11a/b/g/n standards
Spatial Streams	3
Coverage Area	5 km (3.11 miles)
Mounting Type	Wall/Pole

Hardware

CPU	dual-core processor, 880 MHz clock frequency per core
Flash Memory	16 MB
RAM	128 MB
Networking Interface	3 x 10/100/1000BASE-T ports
Wi-Fi Protocols	2.4 GHz: IEEE 802.11 b/g/n 5 GHz: IEEE 802.11 a/n/ac
MIMO	2.4 GHz: 1 x 1 SISO 5 GHz: 2 x 2 MIMO
Channel bandwidth	2.4 GHz: 20/40 MHz 5 GHz: 20/40/80 MHz
Wireless Data Rate	2.4 GHz: 150 Mbps 5 GHz: 867 Mbps
Antenna Gain	2.4 GHz: 1.22 dBi 5 GHz: Ant1:13.54dBi Ant2:14.11dBi
Antenna horizontal orientation	120°

Overview

Antenna vertical orientation	13°
Max. Transmit Power	For United States (Conducted Output Power) 2.4 GHz: 18.77 dBm 5 GHz: 15.37 dBm For Canada (Conducted Output Power) 2.4 GHz: 18.77 dBm 5 GHz: 15.37 dBm
Power Consumption	≤ 12 W
Power Method	DC power adapter (24 V, 0.6 A) (adapter included) 24 V Passive PoE injector (injector included) DC power adapter (12 V, 1 A) PoE/PoE+
PoE power pins	1-2 (+), 3-6 (-); 4-5 (+), 7-8 (-)
PoE Budget	-
Modulation	802.11b: BPSK, QPSK, CCK 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
Receiver Sensitivity	802.11b: -91 dBm (1 Mbps), -88 dBm (5 Mbps), -85 dBm (11 Mbps) 802.11a/g: -89 dBm (6 Mbps), -80 dBm (24 Mbps), -76 dBm (36 Mbps), -71 dBm (54 Mbps) 802.11n: -83 dBm@MCS0, -65 dBm@MCS7, -83 dBm@MCS8, -65dBm@MCS15 802.11ac HT20: -83 dBm (MCS0), -57 dBm (MCS9) 802.11ac HT40: -79 dBm (MCS0), -54 dBm (MCS9) 802.11ac HT80: -76 dBm (MCS0), -51 dBm (MCS9)
LED	1 x system status LED 3 x Ethernet port LEDs 3 x Signal status LEDs
Button	1 x Reset button



Overview

Environment	Operating Temperature: -30°C to $+65^{\circ}\text{C}$ (-22°F to $+149^{\circ}\text{F}$) Storage Temperature: -40°C to $+85^{\circ}\text{C}$ (-40°F to $+185^{\circ}\text{F}$) Operating Humidity: 5% RH to 95% RH (non-condensing) Storage Humidity: 5% RH to 95% RH (non-condensing)
Weather Resistance	IP Rating: IP55 Service port: ± 4 kV for common mode Power connector: ± 4 kV for common mode and ± 2 kV differential mode

Software

Working Mode	BaseStation	Yes
	CPE	Yes
WLAN	TDMA	Yes
	Bridge SSID hiding	Yes
	Antenna alignment	Yes
	Spectrum scan	Yes
	VLAN	Yes
Management and Maintenance	Self Organizing Network	Yes
	SNMP	Yes
	SSH	Yes
	Web management	Yes
	Cloud management	Yes

Performance

WDS	Maximum number of devices on the self organizing network	200
	Maximum number of connections supported by the root bridge	16
	Maximum bridge distance	5 km (3.11 miles)



Overview

	Minimum bridge distance	2 m (6.56 ft.)
	Maximum effective distance of one-touch pairing	20 m (160.04 ft.)
	Bridge performance	Bridging distance: 200 Mbps/1 km (0.62 miles) (HT40) 130 Mbps/3 km (1.86 miles) (HT40) 80 Mbps/5 km (3.11 miles) (HT40)
	RSSI	Bridging distance: -59 dBm/1 km (0.62 miles) -67 dBm/3 km (1.86 miles) -73 dBm/5 km (3.11 miles)
	Recommended number of connected cameras (4–5 Mbps)	Bridging distance: 25/1 km (0.62 miles) 18/3 km (1.86 miles) 10/5 km (3.11 miles)
	Recommended number of connected cameras (7-8 Mbps code streams)	Bridging distance: 13/1 km (0.62 miles) 8/3 km (1.86 miles) 5/5 km (3.11 miles)

Compliance and Standard

NDAA Complain	Yes
Safety	For United States and Canada: UL 62368-1:2019 R10.21 CSA C22.2 No. 62368-1: 2019
EMC	For Canada: ICES-003 Issue 7 For United States: FCC 47 CFR Part 15 Subpart B
RF	For Canada: RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021) ISED RSS-247 Issue 4 RSS-102 Issue 6, December 2023

Overview

	For United States: FCC 47 CFR Part 15 Subpart C FCC 47 CFR Part 15 Subpart E FCC 47 CFR Part 2.1091
Certification	FCC, ISED, cTUVus
Operating Frequency	For United States 2400-2483.5MHz 5150-5250MHz 5250-5350MHz 5470-5725MHz 5725-5850MHz For Canada 2400-2483.5MHz 5150-5250MHz (Indoor use only) 5250-5350MHz (Indoor use only) 5470-5600MHz 5650-5725MHz 5725-5850MHz

Package Contents

Device	Device	1
Manual	User Manual	1
	Warranty Card	1
Accessories	DC power adapter	1
	24 V Passive PoE injector	1
	Power cord	-
	Screw	4 x Phillips pan head screws (self-tapping screws 4.2 mm x 19 mm)
	Cable tie	-



Overview

	Mounting bracket	1
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