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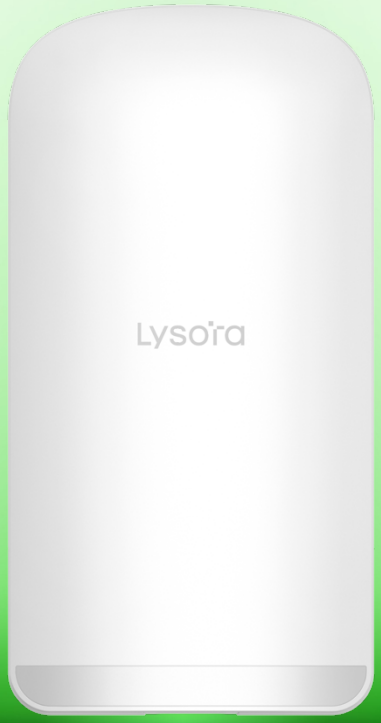

CPE3-P

5 GHz CPE with 13 dBi Built-in Antenna

DATASHEET

Overview	
Dimensions	103mm x 53.4 mm x 199 mm (4.06 in. x 2.1 in. x 7.83 in.) (excluding mounting bracket)
Weight	0.37 kg (0.82 lbs) (without packaging materials) 0.91 kg (2.01 lbs) (with packaging materials)
Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac
Spatial Streams	3
Coverage Area	3km (1.86miles)
Mounting Type	Wall/Pole
Hardware	
CPU	Single-core processor, 575/580 MHz clock frequency
Flash Memory	16 MB
RAM	64 MB
Networking Interface	3 x 10/100BASE-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: 300 Mbps 5 GHz: 867 Mbps
Antenna Gain	2.4 GHz: 2 dBi 5 GHz: 13 dBi
Antenna horizontal orientation	30°
Antenna vertical orientation	30°
Max. Transmit Power	2.4 GHz: 20 dBm 5 GHz: 29 dBm
Power Consumption	9 W (Without PoE Out) 24.4 W (With PoE Out)
Power Method	DC power connector (12 V, 1 A)(connector included) Passive PoE injector (24 V, 0.6 A DC power adapter) (injector included): PoE/PoE+
PoE power pins	1-2 (+), 3-6 (-);4-5 (+), 7-8 (-)

PoE Budget	15.4 W (PoE budget for two ports) When powered by 24 V passive PoE or 802.3at, the device can supply power to other devices via PoE. When powered by 12 V DC or 802.3af, the device cannot supply power to other devices via PoE.	
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	
Environment	Operating Temperature: –30°C to +55°C (–22°F to +131°F) Storage Temperature: –40°C to +85°C (–40°F to +185°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	Base Station	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	5
	Maximum bridge distance	3 km (1.86 miles)
	Minimum bridge distance	2 m (6.56 ft.)
	Maximum effective distance of one-touch pairing	20 m (65.62 ft.)
	Bridge performance	Bridging distance: 90 Mbps/0.5 km (0.31 miles) (HT40) 80 Mbps/1 km (0.62 miles) (HT40) 60 Mbps/2 km (1.24 miles) (HT40) 40 Mbps/3 km (1.86 miles) (HT40)
	RSSI	Bridging distance: -53 dBm/0.5 km (0.31 miles) -59 dBm/1 km (0.62 miles) -65 dBm/2 km (1.24 miles) -70 dBm/3 km (1.86 miles)
	Recommended number of connected cameras (4–5 Mbps)	Bridging distance: 12/0.5 km (0.31 miles) 10/1 km (0.62 miles) 8/2 km (1.24 miles) 5/3 km (1.86 miles)
	Recommended number of connected cameras (7-8 Mbps code streams)	Bridging distance: 5/0.5 km (0.31 miles) 5/1 km (0.62 miles) 2/2 km (1.24 miles) 1/3 km (1.86 miles)

Compliance and Standard	
NDAA Complain	Yes
Health	UL 62368-1:2019
EMC	FCC 47 CFR Part 2 Subpart J FCC 47 CFR Part 15 Subpart E IC RSS-247 Issue 3 FCC 47 CFR Part 15 Subpart B ICES-003 Issue 7
Certifications	FCC, IC, cTUVus
Operating Frequency	US/CA: 2400 - 2472 MHz U-NII-1: 5150 - 5250 MHz

	U-NII-2A: 5250 - 5350 MHz U-NII-2C: 5470 - 5725 MHz U-NII-3: 5725 - 5850 MHz U-NII-5 to U-NII-8 : 5925 - 7125 MHz Worldwide: 2400 - 2483.5 MHz 5150 - 5725 MHz 5925 - 7125 MHz	
Package Contents		
Device	Device	1
Manual	User Manual	1
	Warranty Card	1
Accessories	DC power adapter	1
	PoE injector	1
	Power cord	-
	Rack-mount bracket	-
	Screw	4 x Phillips pan head screws (self-tapping screws 4.2 mm x 19 mm)
	Cable tie	4
	Mounting bracket	-

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