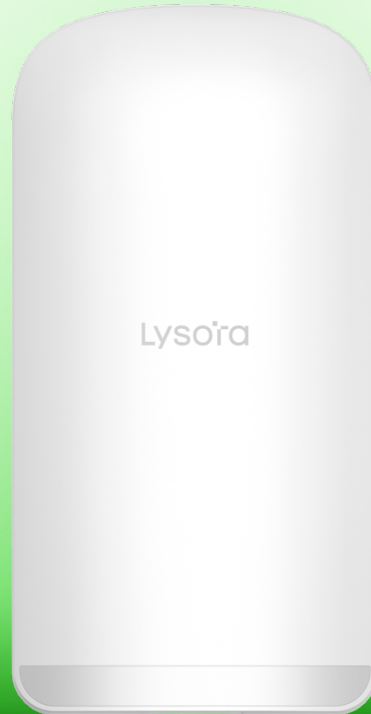


Lyso<sup>r</sup>a



## **CPE3-P**

5 GHz CPE with 13 dBi Built-in  
Antenna



## DATASHEET

Overview	
<b>Dimensions</b>	103mm x 53.4 mm x 199 mm (4.06 in. x 2.1 in. x 7.83 in.) (excluding mounting bracket)
<b>Weight</b>	0.37 kg (0.82 lbs) (without packaging materials) 0.91 kg (2.01 lbs) (with packaging materials)
<b>Wi-Fi Standards</b>	IEEE 802.11 a/b/g/n/ac
<b>Spatial Streams</b>	3
<b>Coverage Area</b>	3km (1.86miles)
<b>Mounting Type</b>	Wall/Pole
Hardware	
<b>CPU</b>	Single-core processor, 575/580 MHz clock frequency
<b>Flash Memory</b>	16 MB
<b>RAM</b>	64 MB
<b>Networking Interface</b>	3 x 10/100BASE-T ports
<b>Wi-Fi Protocols</b>	2.4 GHz: IEEE 802.11 b/g/n 5 GHz: IEEE 802.11 a/n/ac
<b>MIMO</b>	2.4 GHz: 1 x 1 SISO 5 GHz: 2 x 2 MIMO
<b>Channel bandwidth</b>	2.4 GHz: 20/40 MHz 5 GHz: 20/40/80 MHz
<b>Wireless Data Rate</b>	2.4 GHz: 300 Mbps 5 GHz: 867 Mbps
<b>Antenna Gain</b>	2.4 GHz: 2 dBi 5 GHz: 13 dBi
<b>Antenna horizontal orientation</b>	30°
<b>Antenna vertical orientation</b>	30°
<b>Max. Transmit Power</b>	2.4 GHz: 20 dBm 5 GHz: 29 dBm
<b>Power Consumption</b>	9 W (Without PoE Out) 24.4 W (With PoE Out)
<b>Power Method</b>	DC power connector (12 V, 1 A)(connector included) Passive PoE injector (24 V, 0.6 A DC power adapter) (injector included): PoE/PoE+
<b>PoE power pins</b>	1-2 (+), 3-6 (-);4-5 (+), 7-8 (-)



<b>PoE Budget</b>	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.	
<b>Modulation</b>	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	
<b>Receiver Sensitivity</b>	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)	
<b>LED</b>	1 x system status LED 3 x Ethernet port LEDs 3 x Signal status LEDs	
<b>Button</b>	1 x Reset button	
<b>Environment</b>	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)	
<b>Weather Resistance</b>	IP Rating: IP55 Service port: ±4 kV for common mode Power connector: ±4 kV for common mode and ±2 kV differential mode	
<b>Software</b>		
<b>Working Mode</b>	Base Station	Yes
	CPE	Yes
<b>WLAN</b>	TDMA	Yes
	Bridge SSID hiding	Yes
	Antenna alignment	Yes
	Spectrum scan	Yes
	VLAN	Yes
<b>Management and Maintenance</b>	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		
NDA 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
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**Package Contents**

<b>Device</b>	Device	1
<b>Manual</b>	User Manual	1
	Warranty Card	1
<b>Accessories</b>	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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