



# Skyport ZCN-1523H-2-8 2.4Ghz Outdoor CPE

IEEE 802.11b/g/n

Today's wireless market, more specifically the outdoor wireless market, continues to demand higher transmit power, greater dependability and advanced feature sets, all while keeping the client-side cost down. To that end, Zcomax has released it's latest line of customer premise equipment developed for the unlicensed 2.4GHz ISM band, the Skyport ZCN-1523H-2-8.

The ZCN-1523H-2-8 is an all-in-one cost-effective, weatherproof wireless device featuring high output power as well as all the essential features for both operating as an Acess Point or a CPE Client. This dual approach offers greater flexibility and reduced inventory stock as this unit can perform all that is required for establishing reliable wireless networks. The Skyport ZCN-1523H-2-8 is unique in that it includes an 8dBi directional antenna for any point-too-point connection needs and when more power or coverage is required you can bypass the integrated antenna and connect a higher gain antenna to its N-male type RF connector\*.

Please contact a sales representative for more information on samples, promotional pricing and availability on the Skyport series or any other Zcomax wireless products.

\*for antenna limits please check with the regulations in your area

#### ZCN-1523H-2-8 at a Glance

Chipset	Atheros AR9285/AR7240
Transmit Power	26 dBm
<b>Receive Sensitivity</b>	-90 dBm @ 6 Mbps data rate
Antenna (Software selectable)	8 dBi Panel antenna
	N-male type antenna connector





ZCN-152311-2-8 Highlig

## **Key Features**

- IEEE 802.11b/g/n compliant
- Up to 26dBm output power
- WPA / WPA2 wireless security
- RoHS compliant
- Adjustable output power
- Chipset: Atheros AR9002 Family
  - CPU: Atheros AR7240
  - **RF: Atheros AR9285**
- Atheros Align technology
- Software selectable RF output
  - o Integrated 8dBi antenna
  - N type male connector

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### **Skyport Series**

Radio Specification					
Chipset Solution	RF: Atheros AR9285	CPU: AR7240 (400M	Hz)		
Antenna – Default configuration	8dBi integrated directional antenna (vertical pol.)				
External RF connector	N type male connect	N type male connector – switchable by software			
Antenna Configuration	1 * 1 (1 Tx, 1 Rx)				
<b>3</b>		Flash DDR			
Memory		MB		MB	
Modulation					
Modulation	OFDIM: BPSK, QPSr	K, 16-QAM, 64-QAM / D	JSSS: DBPSK, DQPS	N, CCN	
	IEEE 802.11b – 11, 5	5.5, 2, 1			
Available Data Rates (Mbps)	IEEE 802.11g - 54, 4	48, 36, 24, 18, 12, 9, 6			
	IEEE 802.11n (draft) 40.5, 39, 27, 26, 19.5	– 135, 130, 121.5, 117 5, 13.5, 13, 6.5, 6	, 108, 104, 81, 78, 65	, 58.5, 54, 53,	
	USA	USA (FCC)		e (ETSI)	
	2.412GHz – 2.462GHz (Channels 1-11)		2.412GHz – 2.472GHz (Channels 1-13)		
RF Frequency		IEEE 802.11gn HT40 ISM band			
	2.422Ghz – 2.452GHz (Channels 3-9)		2.422Ghz – 2.462GHz (Channels 3-11)		
	802.11b 26 ± 1.5dBm		· · ·		
		6-24Mbps	26 ± 1	.5dBm	
	802.11g	36-48Mbps	25 ± 1	.5dBm	
		54Mbps	24 ± 1	.5dBm	
		HT20	MCS 0-3	26 ± 1.5dBm	
			MCS 4	25 ± 1.5dBm	
Average RF Output Power (± 1.5dB)* *actual power may vary based on regulatory			MCS 5	24 ± 1.5dBm	
requirements			MCS 6	23 ± 1.5dBm	
	802.11n		MCS 7	22 ± 1.5dBm	
	002.1111		MCS 0-3	26 ± 1.5dBm	
		HT40	MCS 4	25 ± 1.5dBm	
			MCS 5	23 ± 1.5dBm	
			MCS 6	22 ± 1.5dBm	
			MCS 7	21 ± 1.5dBm	
	802.11b	802.11g	802.11n		
Receiver Sensitivity	1Mbps: ≤ -93dBm	54Mbps: ≤ -73dBm	HT20/MSC0 ≤88dBm	HT40/MSC0 ≤84dBm	
Regulatory Compliance	FCC Part 15, CE EN	300 328, EN301 489-1/	(17, EN60950		
Standards Compliance	IEEE 8802.11bgn, W	/iFi certificate			
	ILLL 0002. I IDYII, W				

Physical Specification	
Dimension	165mm(l)x60mm(w)x34mm(h)
Weight	≤ 400g
Enclosure	IP55 Plastic



### **Skyport Series**

Electrical Specification		
Reset Button	Reset to factory default	
Power Requirements	12VDC @ 1 A (switching)	
PoE	Passive 12V PoE	
Power Consumption	≤ 900mA @ 12VDC	
LED Definition	Power: Green on = system on, Green off = system off, Amber blinking = Initializing	
	LAN: Off = no Ethernet, On = connection established, Blinking = sending, receiving	
	WLAN (AP Mode) Off = disabled, On = WLAN enabled, Blinking = WLAN activity	
	WLAN (Client Mode) All Off = WLAN disabled, Green blinking = good connection Yellow blinking = Acceptable quality, Red blinking = poor connection quality	

Environmental Specification	
Operating Temperature	-20°C ~ 70°C
Storage Temperature	-30°C ~ 80°C
Operating Humidity (non-condensing)	10 to 95 % RH
Green	RoHs Compliant

Firmware Specification			
	Function	Detail	Default setting
Web Language		English	English
Firmware Upg	rade Method	Web upgrade via Ethernet or Wireless port / 1	FTP upgrade via Etherent port
		Information	
Status		Statistics for Wireless and Ethernet	
		Connection status	
		Device Name	APXXXXXX
	Basic Settings	Country/Domain	USA FCC
System		Time NTP	Disable
System	IP Settings	IP Address assignment (DHCP/Manual)	DHCP / 192.168.1.1, DHCP is the default, however when server is not present the unit reverts to 192.168.1.1
	RADIUS	Accounting and Authentication	Disable
Wireless	Wireless Basic Wireless Settings	Operation mode (AP / CPE / Bridge / AP Repeater)	AP
		AP mode functions	
		1. SSID	Wireless
	2. Hide SSID (enable/disable)	Disable	
	3. Channel select (1-11)	1	
	4. Client limitations (0~32)	32	
	5. Wireless client isolation (enable/disable)	Disable	
		6. Tx flow control (1~2400*64Kbps)	1687
		Client mode functions	

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### **Skyport Series**

	1. SSID	Any
	2. CPE with Multi-Client support	Enable
	3. Tx Flow control by AP (enable/disable)	Disable
	Wireless mode	802.11b/g/n
	Data Rate Selection 1-54Mbps & MCS0-7	Best
Security Settings	<ul> <li>Open system</li> <li>Shared Key (64/128/152-bits WEP)</li> <li>802.1X only</li> <li>WPA</li> <li>WPA2</li> <li>WPA-PSK(TKIP)</li> <li>WPA2-PSK(AES)</li> </ul>	Open System
Access Control	Allow / Deny STA list STA Flow control for allowed stations	Disable

Firmware Spe	cification		
Fu	Inction	Detail	Default setting
		Radio on / off	On
		<ul> <li>Allow / Deny Station list</li> <li>Station Flow control for allowed stations Supports up to 32 stations</li> </ul>	Disable
		WMM Regatta Mode (enable/disable)	Disable
System	Advanced Settings	Output power control: Options (full, 50%, 25%, 12.5%, min)	Full
		Fragmentation Length (256~2346)	2346
		Beacon Interval (20 ~ 10000ms)	100
		RTS/CTS threshold (0~2346)	2346
		DTIM Interval (1-255)	255
Password	Password	Change Password	Password
		Embedded Web configuration management	Enable
	Remote	Telnet support (password-protected telnet access to internal configuration manager)	Enable
Management	Management	SNMP management	Enable
_		FTP	Enable
		SSH - Command Line Interface	
	Configuration	<ul> <li>Web backup and restore configuration</li> <li>Reset to factory default</li> <li>Reboot</li> </ul>	
Tools	Event Log		
10015	Site Survey		

Warranty Information		
Time covered	1 Year from time of purchase	
Terms	Repair or replacement	

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