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
Receive Sensitivity	-90 dBm @ 6 Mbps data rate
Antenna (Software selectable)	8 dBi Panel antenna
	N-male type antenna connector

IEEE	Radio	RoHS	Interface
IEEE B 802.11nG	Atheros	RoHS	Ethernet

ZCN-1523H-2-8 Highlights

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**
  - **Integrated 8dBi antenna**
  - **N type male connector**

Radio Specification				
Chipset Solution	RF: Atheros AR9285 | CPU: AR7240 (400MHz)			
Antenna – Default configuration	8dBi integrated directional antenna (vertical pol.)			
External RF connector	N type male connector – switchable by software			
Antenna Configuration	1 * 1 (1 Tx, 1 Rx)			
Memory	**Flash**	**DDR**		
	8MB	32MB		
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM / DSSS: DBPSK, DQPSK, CCK			
Available Data Rates (Mbps)	IEEE 802.11b – 11, 5.5, 2, 1			
	IEEE 802.11g – 54, 48, 36, 24, 18, 12, 9, 6			
	IEEE 802.11n (draft) – 135, 130, 121.5, 117, 108, 104, 81, 78, 65, 58.5, 54, 53, 40.5, 39, 27, 26, 19.5, 13.5, 13, 6.5, 6			
RF Frequency	**USA (FCC)**	**Europe (ETSI)**		
	2.412GHz – 2.462GHz (Channels 1-11)	2.412GHz – 2.472GHz (Channels 1-13)		
	IEEE 802.11gn HT40 ISM band			
	2.422Ghz – 2.452GHz (Channels 3-9)	2.422Ghz – 2.462GHz (Channels 3-11)		
Average RF Output Power (± 1.5dB)* **actual power may vary based on regulatory requirements*	802.11b	26 ± 1.5dBm		
	802.11g	6-24Mbps	26 ± 1.5dBm	
		36-48Mbps	25 ± 1.5dBm	
		54Mbps	24 ± 1.5dBm	
	802.11n	HT20	MCS 0-3	26 ± 1.5dBm
			MCS 4	25 ± 1.5dBm
			MCS 5	24 ± 1.5dBm
			MCS 6	23 ± 1.5dBm
			MCS 7	22 ± 1.5dBm
		HT40	MCS 0-3	26 ± 1.5dBm
			MCS 4	25 ± 1.5dBm
			MCS 5	23 ± 1.5dBm
			MCS 6	22 ± 1.5dBm
			MCS 7	21 ± 1.5dBm
Receiver Sensitivity	**802.11b**	**802.11g**	**802.11n**	
	1Mbps: ≤ -93dBm	54Mbps: ≤ -73dBm	HT20/MSC0 ≤88dBm	HT40/MSC0 ≤84dBm
Regulatory Compliance	FCC Part 15, CE EN300 328, EN301 489-1/17, EN60950			
Standards Compliance	IEEE 8802.11bgn, WiFi certificate			

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

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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 Upgrade Method		Web upgrade via Ethernet or Wireless port / TFTP upgrade via Etherent port	
Status		Information	
		Statistics for Wireless and Ethernet	
		Connection status	
System	Basic Settings	Device Name	APXXXXXX
		Country/Domain	USA FCC
		Time NTP	Disable
	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	Basic Wireless Settings	Operation mode (AP / CPE)	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	
		1. SSID	Any

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		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	• Open system • Shared Key (64/128/152-bits WEP) • 802.1X only • WPA • WPA2 • WPA-PSK(TKIP) • WPA2-PSK(AES)	Open System
	Access Control	Allow / Deny STA list STA Flow control for allowed stations	Disable

Firmware Specification			
Function		**Detail**	**Default setting**
System	Advanced Settings	Radio on / off	On
		• Allow / Deny Station list • Station Flow control for allowed stations Supports up to 32 stations	Disable
		WMM Regatta Mode (enable/disable)	Disable
		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
Management	Password	Change Password	Password
	Remote Management	Embedded Web configuration management	Enable
		Telnet support (password-protected telnet access to internal configuration manager)	Enable
		SNMP management	Enable
		FTP	
	Configuration	• Web backup and restore configuration • Reset to factory default • Reboot	
Tools	Event Log		
	Site Survey		

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

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