

Skyport ZCN-1523H-5-16 5Ghz Outdoor CPE

IEEE 802.11a/n

Today's wireless outdoor market continues to demand longer distances, greater dependability and more advanced feature sets, all while keeping the equipment cost down. To that end, Zcomax has released it's latest line of customer premise equipment developed for the unlicensed 5.8GHz ISM band, the Skyport ZCN-1523H-5-16.

The ZCN-1523H-5-16 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 Access Point or a CPE Client. This dual approach offers greater flexibility and reduced inventory stock as this unit can perform all the necessary functions to construct reliable wireless networks. The Skyport ZCN-1523H-5-16 is unique in that it includes a dual-polarity 16dBi directional antenna for bridged connections and if more power or coverage is required you can bypass the integrated antenna and connect a higher gain antenna to its 2 SMA-R female RF connectors*.

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-5-16 at a Glance

Chipset	Atheros AR9280/AR7240
Transmit Power	24 dBm
Receive Sensitivity	-89 dBm @ 6 Mbps data rate
Antenna (Software selectable)	16 dBi dual polarity panel antenna 2 x SMA-R female antenna connectors

IEEE	Radio	RoHS	Interface
			



ZCN-1523H-5-16 Highlights

Key Features

- IEEE 802.11a/n compliant
- Up to 40dB EIRP output power
- WPA / WPA2 wireless security
- RoHS compliant
- IP55 rated enclosure
- Adjustable output power
- Chipset: Atheros AR9002 Family
 - NPU: Atheros AR7240
 - RF: Atheros AR9280
- Software selectable 2x2 MIMO RF output
 - Integrated 16dBi antenna
 - 2 x SMA-R female connectors

Radio Specification				
Chipset Solution	RF: Atheros AR9280 NPU: AR7240			
Antenna – Default configuration	16dBi integrated directional antenna (dual polarity)			
External RF connector	2 x SMA-R female connectors			
Antenna Configuration	2 * 2 (2 Tx, 2 Rx)			
Memory	Flash		DDR	
	8MB		32MB	
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM			
Available Data Rates (Mbps)	IEEE 802.11a – 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)	
	5.725GHz – 5.825GHz		5.470-5.725GHz / 5.725-5.825GHz	
Average RF Output Power ($\pm 1.5\text{dB}$)* <small>*actual power may vary based on regulatory requirements</small>	802.11a	6-24Mbps	24 \pm 1.5dBm	
		36Mbps	24 \pm 1.5dBm	
		48Mbps	22 \pm 1.5dBm	
		54Mbps	21 \pm 1.5dBm	
	802.11n	HT20	MCS 0	23 \pm 1.5dBm
			MCS 15	20 \pm 1.5dBm
Receiver Sensitivity	802.11a		802.11n	
	6-24Mbps: $\leq -89\text{dBm}$	54Mbps: $\leq -73\text{dBm}$	HT20/MCS0 $\leq -89\text{dBm}$	
Regulatory Compliance	FCC Part 15, CE EN300 328, EN301 489-1/17, EN60950			
Standards Compliance	IEEE 802.11a; IEEE 802.11n; IEEE802.3u MDI / MDIX 10/100 Fast Ethernet			

Physical Specification	
Dimension	111mm(l)x256mm(w)x48mm(h)
Enclosure	IP55 Plastic

Electrical Specification	
Reset Button	Reset to factory default
Power Requirements	15VDC @ 800mA (switching)
PoE	Passive 15V PoE
Power Consumption	$\leq 900\text{mA}$ @ 15VDC
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)	5 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 Ethernet 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 selection	149
		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
	2. CPE with Multi-Client support	Enable	
	3. Tx Flow control by AP (enable/disable)	Disable	
	Wireless mode		802.11a/n
	Data Rate Selection 6-54Mbps & MCS0-7		Best
	Security Settings	<ul style="list-style-type: none"> • 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
		<ul style="list-style-type: none"> 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
		Space-In-Meters	--
		Channel bandwidth	20MHz
		HT Protect	Disable
		A-MPDU aggregation	Enable
		A-MSDU aggregation	Disable
		Short GI	Enable
		IGMP snooping	Enable
		Preamble type	Short
		Extension channel protection	None
		Link integration	Disable
		RIFS	Enable
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	<ul style="list-style-type: none"> 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