

## ENS500EXT

Long Range Wireless 11N Outdoor AP /CB

- 11a/n 300Mbps High performance



ENS500EXT Data sheet Version 260313

\*Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

\*\* All specifications are subject to change without notice

**BUSINESS CLASS** 

**ENS500EXT** 





## **PRODUCT OVERVIEW**

**ENS500EXT** Wireless Outdoor unit provides not only external antenna connectors for antenna upgrade, but also high output power and high sensitivity can extend the transmission range to deliver a stable wireless connection. ENS500EXT integrates 4 operation modes: Access Point, Client Bridge, Client Router and WDS.

Advanced multi-function operation modes offer flexibility in constructing scalable wireless networks for all possible applications. ENS500EXT is designed to deliver reliable service under harsh outdoor environment with certified IP65 protection and tailored to accommodate multimedia streaming services with data-rate up to 300Mbps. Most importantly, it is built-in encryption standards (WEP, WPA, WPA2, TKIP/AES and IEEE802.1x) ensure maximum security and compatibility.

FEATURES		
HARDWARE FEATURES		
High output power	Transmit high output power programmable for different country selections	
High Data Rate	High speed transmitting rate up to 300Mbps with 2T2R 802.11n	
Long range transmitting	Transmit power control and distance control (ACK timeout)	
Signal Strength Display	Indicate RF signal strength to be shown as LEDs of 3 colors, making network build- up easier. LED indicators have the best transmit and receive signal for traffic communication	
PoE Support	Support proprietary 24V passive power over Ethernet	
SOFTWARE		
Multiple SSID	4 SSID supported. Each SSID can set itself wireless or WAN access setting	

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PPPoE	Point-to-Point Protocol over Ethernet at Client Router mode. This function will keep trying when failed or disconnected
РРТР	Point-to-Point Tunneling Protocol (PPTP) is a method for implementing virtual private networks
VLAN Pass-through	Support VLAN Pass-through
Firmware Upgrade	Upgrading firmware via web browser, setting are reserved after upgrade
Reset & Backup	Reset to factory default. User can export all setting into a file via WEB
Ping & Trace Route	Built-in PING function & Trace Route function in Web GUI
MIB	MIB I, MIB II (RFC1213), Private MIB
SNMP	V1, V2c, V3

SPECIFICATIONS		
HARDWARE SPECIFICATIONS		
мси	Atheros AR9344	
RF	N/A	
Memory	64MB	
Flash	16MB	
Physical Interface	2 x RJ-45 for 10/100 Fast Ethernet 1 x Reset Button	
Power Requirements	- Active Ethernet (Power over Ethernet) - Proprietary PoE design - Power Adapter 24V / 0.6A	
RF SPECIFICATIONS		
Frequency Band	802.11a/n	
Data rate	300Mbps	

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## Datasheet ENS500EXT

Channel         Data Rate         (±2dBm)           different depending on local regulations)         6Mbps         13         -95           9Mbps         13         -92           12Mbps         13         -89           802.11a (5.18 ~         18Mbps         13         -81           36Mbps         12         -79           48Mbps         11         -76           54Mbps         10         -75           MCS0 / MCS8         13         -95           MCS1 / MCS9         13         -93           MCS2 / MCS10         13         -90           802.11n (5.18 ~         MCS3 / MCS11         13         -87           5.825GHz)         MCS4 / MCS12         13         -84           MCS5 / MCS13         13         -79           MCS6 / MCS14         12         -75           MCS7 / MCS15         11         -73    Antenna  2xExternal SMA Connector	Radio Frequency Band			Tx Avg. Power	Rx Sensitivity	
Mily   13   -95	(The Max. Power may be	Channel		_	(±2dBm)	
Monte   13   -92						
SO2.11a (5.18 ~ 18Mbps	-			13	-92	
S.825GHz    24Mbps   13	regulations)				-89	
36Mbps   12   -79		802.11a (5.18 ~	18Mbps	13	-85	
48Mbps		5.825GHz)	24Mbps	13	-81	
S4Mbps			36Mbps	12	-79	
MCS0 / MCS8			48Mbps	11	-76	
MCS1 / MCS9			54Mbps	10	-75	
## MCS2 / MCS10			MCS0 / MCS8	13	-95	
802.11n (5.18 ~   MCS3 / MCS11   13			MCS1 / MCS9	13	-93	
MCS4 / MCS12			MCS2 / MCS10	13	-90	
MCS5 / MCS13   13   -79		802.11n (5.18 ~	MCS3 / MCS11	13	-87	
MCS6 / MCS14 12 -75 MCS7 / MCS15 11 -73  Antenna 2xExternal SMA Connector  SOFTWARE SPECIFICATIONS  Operation Mode Access Point / Client Bridge / Client Router / WDS  Auto Channel Selection (Setting varies by Regular Domains) Obey Regulatory Power Distance Control (802.1x Ack timeout) CLI Supported 802.1x Supplicant (CB Mode) Multiple SSID (4 SSID), BSSID WDS AP / WDS Bridge / WDS Station Multicast Supported RADIUS Accounting VLAN Tag / VLAN Pass-through Auto Reboot		5.825GHz)	MCS4 / MCS12	13	-84	
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Auto Channel Selection (Setting varies by Regular Domains)  Obey Regulatory Power  Distance Control (802.1x Ack timeout)  CLI Supported  802.1x Supplicant (CB Mode)  Multiple SSID (4 SSID), BSSID  WDS AP / WDS Bridge / WDS Station  Multicast Supported  RADIUS Accounting  VLAN Tag / VLAN Pass-through  Auto Reboot	SOFTWARE SPECIFICATIONS					
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Distance Control (802.1x Ack timeout)  CLI Supported  802.1x Supplicant (CB Mode)  Multiple SSID (4 SSID), BSSID  WDS AP / WDS Bridge / WDS Station  Multicast Supported  RADIUS Accounting  VLAN Tag / VLAN Pass-through  Auto Reboot		Auto Channel Sele	ction (Setting varies	by Regular Domains	s)	
CLI Supported  802.1x Supplicant (CB Mode)  Multiple SSID (4 SSID), BSSID  WDS AP / WDS Bridge / WDS Station  Multicast Supported  RADIUS Accounting  VLAN Tag / VLAN Pass-through  Auto Reboot						
Wireless/Network  Wireless/Network  WDS AP / WDS Bridge / WDS Station  Multicast Supported  RADIUS Accounting  VLAN Tag / VLAN Pass-through  Auto Reboot		Distance Control (802.1x Ack timeout)				
Multiple SSID (4 SSID), BSSID  WDS AP / WDS Bridge / WDS Station  Multicast Supported  RADIUS Accounting  VLAN Tag / VLAN Pass-through  Auto Reboot		CLI Supported				
WDS AP / WDS Bridge / WDS Station  Multicast Supported  RADIUS Accounting  VLAN Tag / VLAN Pass-through  Auto Reboot		802.1x Supplicant (	(CB Mode)			
WDS AP / WDS Bridge / WDS Station  Multicast Supported  RADIUS Accounting  VLAN Tag / VLAN Pass-through  Auto Reboot	NAC - La - (A) I	Multiple SSID (4 SS	SID), BSSID			
RADIUS Accounting  VLAN Tag / VLAN Pass-through  Auto Reboot	wireless/Network	WDS AP / WDS Br	idge / WDS Station			
VLAN Tag / VLAN Pass-through Auto Reboot		Multicast Supported	d			
Auto Reboot			g			
		VLAN Tag / VLAN Pass-through				
WiFi Scheduling		Auto Reboot				
		WiFi Scheduling				

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Security	WEP Encryption-64/128/152 bit
	WPA/WPA2 Personal (WPA-PSK using TKIP or AES)
	WPA/WPA2 Enterprise (WPA-EAP using TKIP)
	Hide SSID in beacons
	MAC address filtering, up to 50 field
	Wireless STA (Client) connected list
QoS	WMM

ENVIRONMENT AND MECHANICAL		
Temperature Range	Operating -20℃~70℃ Storage -30℃ to 80℃	
Humidity (non-condensing)	0%∼90% typical	
Dimensions	186mm (L) x 100mm (W) x 29mm (H)	
Weight	300g	

PACKAGE CONTENT		
► 1 x ENS500EXT		
▶ 2 x 5GHz 5dBi Omni Antenna		
► 1 x Power Adapter (24V/0.6A)		
► 1 x PoE Injector (EPE1212)		
► 1 x Pole Mount Set		
▶ 1 x Screw Set		
▶ 1 x Technical Support Card		

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