



Wireless LANs

Empowering Mobility & Security

PLANET Wireless LAN Management Solution

PLANET Wireless LAN Management Solution offers multiple ways of central AP management with Hardware AP Controller, Software AP Controller and Firmware AP Controller. The solution enables you to control more than 1000 APs in different indoor or outdoor locations at the same time. Featuring the friendly floor plan, dashboard and graphical statistic functions through one single browser-based web user interface, the administrator can easily discover, configure, update and monitor all the managed APs.



Dashboard

Watch Over Wireless APs within Minutes

Provides a web-based dashboard with graphical data analysis for your wireless APs network



Google Map

Optimizing Wi-Fi Deployment with Google Map

Optimizes signal coverage to enhance network performance



NMS
DDNS

Centralized Wireless LAN Management via UNI-NMS

Controls wireless APs via PLANET's Universal Network Management System or DDNS cloud portal



AP Provision

Easy to Manage Multiple Access Points

User-friendly Web GUI and step-by-step guidance for easy management



Indoor Managed Access Points



Wireless AP Controllers



Outdoor Managed Access Points

Wireless LAN Controllers Solution

	Hardware AP Controller	Software AP Controller	AP Controller PoE Router		Wireless Switch with PoE		Firmware AP Controller
Model No./System Name	WAPC-500 WAPC-1000	SAPC	VR-300	IVR-300	WS-2864PVR	WS-1232P	NMS (Network Management System)
Product Image	 		 		 		
Max. number of APs supported	512/1024	256	20	20	64	32	1 to 5 (the same model required)
AP Control related features							
AP Discovery	●	●	●	●	●	●	●
AP Control, Cluster Management	●	●	●	●	●	●	●
AP Status Monitoring	●	●	●	●	●	●	●
Real-time Graphical Statistics	●	●	●	●	●	●	-
SSID/RF Profile Creation	●	●	●	●	●	●	●
Profile Backup/Restore	●	●	●	●	-	-	-
Bulk AP Provisioning/Delivery	●	●	●	●	●	●	●
Bulk AP Firmware Upgrade	●	●	●	●	●	●	●
Floor Map	●	●	●	●	●	●	●
Google Map	●*1	●*1	●*1	●*1	●*1	●*1	-
Topology View	●*1	●*1	●*1	●*1	●*1	●*1	-
Rogue AP Detection	●*1	●*1	●*1	●*1	●*1	●*1	-
Built-in DHCP Server	●	-	●	●	●	●	-
Auto IP Assignment(DHCP server)	●	●*2	●	●	●	●	●
L2 Roaming	●	●	●	●	●	●	-
L3 Routing	-	-	●	●	IPv4/IPv6 Static routing,OSFPv2		-
PoE Schedule, Alive Check	-	-	●	●	●	●	-
SSIDs-to-VLANs mapping	●	●	●	●	●	●	●
802.1X RADIUS Authentication	●	●*3	●*3	●*3	●*3	●*3	●
Captive Portal	●*1	●*1	●*1	●*1	●*1	●*1	-
MAC Access Control (Black list)	●*1	●*1	●*1	●*1	●*1	●*1	●
User Account Management	●	●*1	●*1	●*1	●*1	●*1	●
Supported AP Models		Outdoor: WDAP-702AC WDAP-802AC WAP-200N WAP-252N WAP-500N WAP-552N	WBS-200N WBS-500N WBS-502AC WBS-202N WBS-502N	Indoor: WDAP-C7200E WNAP-C3220E WNAP-W2200UE WDAP-C7200AC WDAP-W7200AC	WNAP-C3220A WNAP-W2201A WDAP-W750E		WDAP-C1750 WDAP-1750AC

*1. Future supported through firmware/patch upgrade

*2. DHCP server is required

*3. External RADIUS Server is required

Indoor Managed AP Series

Indoor 11ac Dual Band APs			Indoor 11n 2.4G APs		
Model	WDAP-1750AC	WDAP-C7200E	WNAP-C3220E	WNAP-W2200UE	WDAP-W750E
Product Image					
	500mW	500mW		USB Charger	USB Charger
Wireless	Standard	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11b/g/n	802.11b/g/n/ac
	Max. Data Rate	450+1300Mbps	300+867Mbps	300Mbps	750Mbps
	MIMO System	3T3R	2T2R	2T2R	24G:2T2R 5G:1T1R
	Antenna/Connector	2dBi x3	5dBi x2	5dBi x2	2dBi x2
	Max. TX Power	FCC: < 27.5dBm ETSI: EIRP < 20dBm	FCC: < 27dBm ETSI: EIRP < 20dBm	FCC: < 23dBm ETSI: EIRP < 20dBm	EIRP < 20dBm
Hardware	Network Interface	2 x 10/100/1000BASE-T (LAN2 PoE Out)	2 x 10/100/1000BASE-T	1 x 10/100BASE-TX	2 x 10/100BASE-TX
	USB	-	-	-	1 x USB 2.0 charger
	PoE	802.3at PoE+	802.3at PoE+	802.3af/at PoE	802.3af/at PoE
	Power Requirements	12V DC, 4A or 802.3at PoE+	12V DC, 1.5A or 802.3at PoE+	48V 802.3af PoE	48V 802.3af PoE
Operating Mode	Access Point	●	●	●	●
	Client Bridge	-	-	-	-
	WDS Bridge	●	-	-	-
	Repeater	●	-	-	-
	Universal Repeater	-	●	●	●
	WISP	-	●	●	-
Security	WEP	64-/128-bit	64-/128-bit	64-/128-bit	64-/128-bit
	WPA/WPA2	●	●	●	●
	802.1X	●	●	●	●
	WPS	●	-	-	-
Advanced	Multiple SSIDs	16 per radio	4	4	8
	802.1Q VLAN	●	●	●	●
	AP Isolation	●	●	●	●
	Max. Wireless Clients	50+50 (2.4G+5G)	50+50 (2.4G+5G)	30	50+50 (2.4G+5G)
	WMM	●	●	●	●
	MAC Filtering	●	●	●	●
	Guest Network	-	-	-	-
	IPv6	-	-	-	-
	SNMP	●	●	●	●
	Fast Roaming	-	●	●	●
Environment	Smart Discovery	●	●	●	●
	Operating Temperature	0 ~ 50 degrees C	0 ~ 55 degrees C	0 ~ 40 degrees C	0 ~ 40 degrees C
Management	Operating Humidity	10 ~ 90% (non-condensing)		10 ~ 90% (non-condensing)	
	Applicable Controllers	Firmware NMS System	WAPC-500/WAPC-1000 SAPC WS-1232P/ WS-2864PVR	WAPC-500/WAPC-1000 SAPC WS-1232P/ WS-2864PVR	

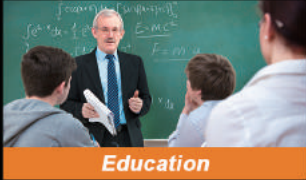
Wireless Presentation Gateways

Wireless Presentation Gateways			
Model		WIPG-300H	
Product Image			
1080P			
Wireless	Standard	802.11a/b/g/n	
	Max. Data Rate	300Mbps	
	Operation Mode	AP, Universal Repeater	
	Antenna	2dBi x2	
Hardware	Video/Audio Interface	HDMI: 1.4b Video: VGA Port (D-Sub 15-Pin female) Audio Out: 3.5mm stereo jack	
	Network Interface	1 x 10/100BASE-TX RJ45	
	Power Requirements	5V DC, 2.6A	
	USB	3 x USB 2.0 (Rear USB: for UoIP)	
Security	WEP	64-/128-bit	
	WPA/WPA2	●	
Resolution	HDMI Interface	720p(1280x720)/1080i(1920x1080)/1080p(1920x1080)	
	VGA Interface	SVGA(800x600)/XGA(1024x768)/WXGA(1280x768)/ WXGA(1280x800)/WXGA(1360x768)/WXGA+(1440x900)/ UXGA(1600x1200)	
Advanced	UoIP (USB Over IP)	●	
	Max. Wireless Clients	64 (Suggested 15)	
	MirrorOp Sender	Windows	Mac
	4-to-1 Projection	●	●
	Audio Projection	●	●*1
	Document/Photo/Video Projection	●	●
	Virtual Extended Desktop	●	●
	Conference Control/User List	●	●
	Gatekeeper	●	●
	Webslides	●	●
	Compatibility	Windows 7/8/10	Mac OS X 10.9 and above
	MirrorOp Presenter	Android	iOS
	4-to-1 Split Screen	●	●
	Document/Photo/Video Projection	●	●
	SidePad*2	●	●
	Compatibility	Android 4.1 and above	iOS 8.0 and above

*1. Extra utility required
*2. MirrorOp Receiver is required



High Quality Wireless
Projection & Video Streaming



Education

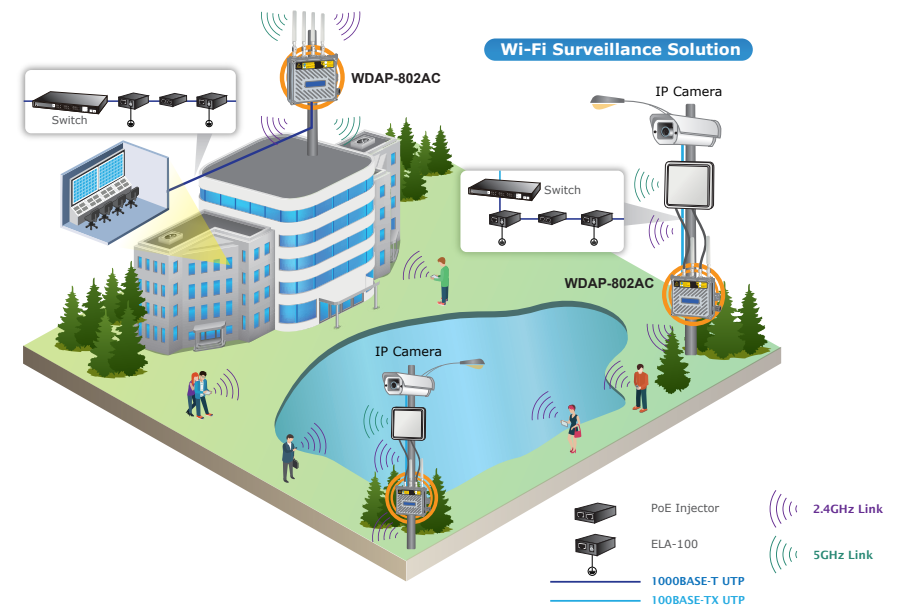
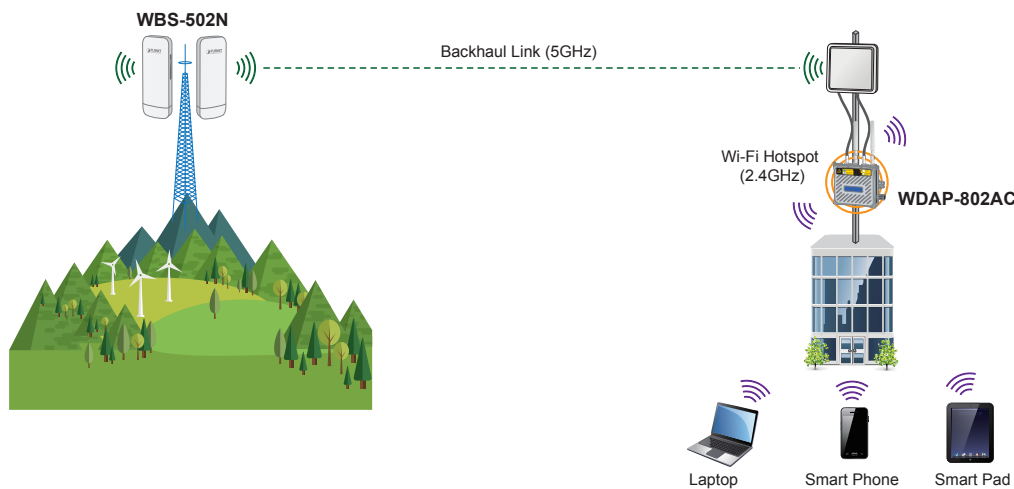


Office

Outdoor Wi-Fi Networking

Outdoor Wi-Fi LAN Solution

PLANET outdoor Wi-Fi LAN solution designed for campuses, residences, business buildings, and more features point-to-point and point-to-multipoint wireless networking. It is suitable for wide-ranging connectivities.



Dual Band Outdoor Wireless Access Points

	11ac Dual Band APs	11n Dual Band AP
Model	WDAP-802AC	WDAP-8350

Product Image



		IP68	IP66
Outdoor IP Level		IP68	IP66
Wireless	Standard	802.11a/b/g/n/ac/i	802.11a/b/g/n
	Max. Data Rate	300+867Mbps	300+300Mbps
	Antenna/Connector	4 x N-Type (F)	4 x N-Type (F)
	Max. Range	Depends on antenna	Depends on antenna
	Max. TX Power	FCC : < 25dBm ETSI : EIRP < 20dBm	FCC : < 27dBm ETSI : EIRP < 20dBm
Hardware	Network Interface	1 x 10/100/1000BASE-T	1 x 10/100/1000BASE-T
	PoE	802.3at PoE+	802.3at PoE+
Operating Mode	Access Point	●	●
	Client Bridge	-	-
	WDS Bridge	●	●
	Repeater	-	-
	Universal Repeater	●	-
	WISP	●	-
Security	WEP	64-/128-bit	64-/128-bit
	WPA/WPA2	●	●
	802.1X	●	●
WAN Type (In WISP Mode)	Dynamic IP	●	-
	Static IP	●	-
	PPPoE/PPTP/L2TP	●/-/-	-
Advanced	Multiple SSIDs	4+4 (2.4G+5G)	16+16 (2.4G+5G)
	802.1Q VLAN	●	●
	AP Isolation	●	●
	Max. WDS Peers	4	16+16 (2.4G+5G)
	Max. Wireless Clients	50+50 (2.4G+5G)	50+50 (2.4G+5G)
	WMM	●	●
	MAC Filtering	●	-
	Firewall	●	-
	VPN Pass-through	●	-
	Guest Network	-	-
	IPv6	-	●
	SNMP	●	-
	Fast Roaming	●	-
	Smart Discovery	●	●
Environment	Operating Temperature	-40 ~ 70 degrees C	-40 ~ 70 degrees C
	Operating Humidity	10 ~ 90% (non-condensing)	10 ~ 95% (non-condensing)
Management	Applicable Controllers	WAPC-500/WAPC-1000 SAPC WS-1232P/ WS-2864PVR	-

2.4GHz Outdoor Wireless Access Points

	11n 2.4G APs/CPE	
Model	WAP-252N	WBS-202N

Product Image



		IP67	14dBi
Outdoor IP Level		IP67	IP55
Wireless	Standard	802.11b/g/n	802.11b/g/n
	Max. Data Rate	300Mbps	300Mbps
	Antenna/Connector	2 x N-Type (F)	14dBi dual-polarity directional antenna
	Max. Range	Depends on antenna	Up to 10 km with 14dBi dual-polarity antenna
	Max. TX Power	FCC : 29dBm ETSI : EIRP < 20dBm	FCC : 29dBm ETSI : EIRP < 20dBm
Hardware	Network Interface	1 x 10/100BASE-TX	1 x 10/100BASE-TX
	PoE	802.3af/at PoE	802.3af/at PoE
Operating Mode	Access Point	●	●
	Client Bridge	-	-
	WDS Bridge	●	●
	Repeater	-	●
	Universal Repeater	●	-
	WISP	●	●
Security	WEP	64-/128-bit	-
	WPA/WPA2	●	●
	802.1X	●	●
WAN Type (In WISP Mode)	Dynamic IP	●	●
	Static IP	●	●
	PPPoE/PPTP/L2TP	●/-/-	●/-/-
Advanced	Multiple SSIDs	4	4
	802.1Q VLAN	●	●
	AP Isolation	●	●
	Max. WDS Peers	4	4
	Max. Wireless Clients	50	50
	WMM	●	●
	MAC Filtering	●	●
	Firewall	●	-
	VPN Pass-through	●	●
	Guest Network	-	-
	IPv6	-	-
	SNMP	●	●
	Fast Roaming	●	●
	Smart Discovery	●	●
Environment	Operating Temperature	-40 ~ 70 degrees C	-20 ~ 70 degrees C
	Operating Humidity	10 ~ 95% (non-condensing)	5 ~ 90% (non-condensing)
Management	Applicable Controllers	WAPC-500/WAPC-1000 SAPC WS-1232P/ WS-2864PVR	

5GHz Outdoor Wireless Access Points

11n 5G APs/CPE			
Model		WAP-552N	WBS-502N
Product Image			
		IP67	15dBi
Outdoor IP Level		IP67	IP55
Wireless	Standard	802.11a/n	802.11a/n
	Max. Data Rate	300Mbps	300Mbps
	Antenna/Connector	2 x N-Type (F)	15dBi dual-polarity directional antenna
	Max. Range	Depends on antenna	Up to 10km
	Max. TX Power	FCC : 27dBm ETSI : EIRP < 20dBm	FCC : 27dBm ETSI : EIRP < 20dBm
Hardware	Network Interface	1 x 10/100BASE-TX	1 x 10/100BASE-TX
	PoE	802.3af/at PoE	802.3af/at PoE
Operating Mode	Access Point	●	●
	Client Bridge	-	-
	WDS Bridge	●	●
	Repeater	-	●
	Universal Repeater	●	-
	WISP	●	●
Security	WEP	64-/128-bit	-
	WPA/WPA2	●	●
	802.1X	●	●
WAN Type (In WISP Mode)	Dynamic IP	●	●
	Static IP	●	●
	PPPoE/PPTP/L2TP	● / - / -	● / - / -
Advanced	Multiple SSIDs	4	4
	802.1Q VLAN	●	●
	AP Isolation	●	●
	Max. WDS Peers	4	4
	Max. Wireless Clients	50	50
	WMM	●	●
	MAC Filtering	●	●
	Firewall	-	-
	VPN Pass-through	●	●
	Guest Network	-	-
	IPv6	-	-
	SNMP	●	●
	Fast Roaming	-	-
	Smart Discovery	●	●
Environment	Operating Temperature	-40 ~ 70 degrees C	-20 ~ 70 degrees C
	Operating Humidity	10 ~ 95% (non-condensing)	5 ~ 90% (non-condensing)
Management	Applicable Controllers	WAPC-500/WAPC-1000 SAPC WS-1232P/ WS-2864PVR	WAPC-500/WAPC-1000 SAPC WS-1232P/ WS-2864PVR

4G LTE Vehicle/Industrial Wireless Gateway

Wireless Gateway				
Model		VCG-1500WG-LTE	ICG-2510W-LTE	ICG-2510WG-LTE
Product Image				
Hardware	10/100BASE-TX	4	5 10/100/1000BASE-T	5 10/100/1000BASE-T
	WAN	1	1	1
	Wi-Fi	802.11n, 2.4GHz	802.11n, 2.4GHz 802.11ac, 5GHz	802.11n, 2.4GHz 802.11ac, 5GHz
	GPS	●	-	●
	SIM Card Slot	1	2 (Failover, Load balancing and bonding function)	
	TF Card Slot	2	1	1
Multi Band Supports	EU Model	FDD LTE B1/B3/B5/B7/B8/B20(2100/1800/850/2600/900/800) TDD LTE B38/B40/B41(2600/2300/2500) WCDMA B1/B5/B8(2100/850/900) GSM/EDGE B3/B8 (1800/900)		
	US Model	FDD LTE B2/B4/B12 (1900/AWS1700/700) WCDMA B2/B4/B5 (1900/AWS1700/850)		
	LTE	20MHz bandwidth: 100Mbps (DL), 50Mbps (UL)		
Power	Inputs	5-32V DC	5-36V DC	5-36V DC
	Connector	Standard 4-pin vehicle power jack	6 pin 3.5mm terminal block	
	Consumption	3 watts	7 watts	7 watts
Mechanical	Dimensions (W x D x H)	168 x 104 x 25 mm	115.7 x 133 x 45	115.7 x 133 x 45
	Enclosure	IP30 metal case	IP30 metal case	IP30 metal case
	Mounting	Mounting brackets for vehicles	DIN rail	DIN rail
Environment	Operating Temperature	-25~65 degrees C	-35~75degrees	-35~75degrees
	Operating Humidity	95% (non-condensing)	95%(non-condensing)	95%(non-condensing)
Regulatory	Emissions	FCC Part 15 Class A, CE	FCC Part 15 Class A, CE	FCC Part 15 Class A, CE
	Stability	Static Route, VPN, DDNS, IP Filter, QoS	Static Route, VPN, DDNS, IP Filter	
Management	Interface	Console, Web, telnet	Console, Web, telnet	Console, Web, telnet
	Wifidog	work with CMS for remote management and advertising		
	Log	Syslog Log	Syslog Log	Syslog Log

Home & SOHO Wi-Fi Networking

PLANET makes your home networking easier and more compact with 802.11ac solution. Simply install an 802.11ac compatible wireless router, WDRT-1202AC, in the house, and its wide coverage and stable quality will definitely offer you a seamless and impressive wireless roaming experience. From now on, you can surf the web, enjoy multimedia streaming and share files wirelessly without any limitation.



A



WDRT-1202AC

1200Mbps 802.11ac Dual Band
Wireless Gigabit Router

B



WDAP-W750E

750Mbps 802.11ac In-wall Wireless
Access Point with USB Charger

C



ICA-W7100

720p Wireless IR PT IP Camera

802.11ac Dual Band Wireless Routers

Dual-Band APs/Routers		11n AP/Router		VDSL2 AP Router		11n AP/Router			
Model		WDRT-1202AC		FRT-415N		VDR-301N		WNRT-300	
Product Image									
		Guest Network		Fiber		VDSL2 ADSL2+		Portable	
Wireless	Standard	802.11a/b/g/n/ac		802.11b/g/n		802.11b/g/n		802.11b/g/n	
	Max. Data Rate	300+867Mbps		300Mbps		300Mbps		150Mbps	
	MIMO System	2T2R		2T2R		2T2R		1T1R	
	Antenna/Connector	2.4G: 5dBi 5G: 5dBi		5dBi x2		4dBi x2		2dBi	
	Max. Range	indoor: 70m outdoor: 300m		indoor: 70m outdoor: 300m		indoor: 70m outdoor: 300m		indoor: 70m outdoor: 300m	
	Max. TX Power	EIRP < 20dBm		EIRP < 20dBm		EIRP < 20dBm		EIRP < 20dBm	
Hardware	Network Interface	1 x 10/100/1000BASE-T WAN 4 x 10/100/1000BASE-T LAN		4 x 10/100BASE-TX LAN 1 x 100BASE-FX SFP		4 x 10/100BASE-TX LAN 1 x 1000BASE-T RJ45 WAN 1 x RJ11		1 x 10/100BASE-TX	
	USB	1 x USB 2.0 for storage, DLNA		-		-		Mini-USB for power/charging	
	Power Requirements	12V DC, 1.5A		12V DC, 0.5A		12V DC, 0.5A		5V DC, 1A Built-in Li-ion Battery	
Operating Mode	Access Point	●		●		●		●	
	Client Bridge	-		-		-		●	
	WDS Bridge	-		●		-		●	
	Repeater	-		-		-		●	
	Universal Repeater	-		-		-		●	
	WISP	-		-		-		●	
Security	WEP	-		64-/128-bit		64-/128-bit		64-/128-bit	
	WPA/WPA2	●		●		●		●	
	802.1X	-		●		●		●	
	WPS	●		●		●		●	
WAN Type	Dynamic IP	●		●		●		●	
	Static IP	●		●		●		●	
	PPPoE/PPTP/L2TP	●/●/●		●		●/-/-		●	
Advanced	Multiple SSIDs	2		4		4		4	
	802.1Q VLAN	● (WAN only)		-		● (WAN only)		-	
	AP Isolation	-		-		-		●	
	DMZ	●		●		●		●	
	Max. Wireless Clients	32+32 (2.4G+5G)		16		16		20	
	WMM	-		●		●		●	
	MAC Filtering	●		●		●		●	
	Firewall	●		●		●		●	
	VPN	L2TP over IPSec		-		●		-	
	VPN Pass-through	-		●		●		●	
	Guest Network	●		-		-		-	
	IPv6	●		-		●		-	
	SNMP	-		-		-		-	
	PLANET DDNS	●		●		●		●	
Environment	Smart Discovery	-		-		-		-	
	Operating Temperature	0 ~ 40 degrees C		0 ~ 40 degrees C		0 ~ 40 degrees C		0 ~ 40 degrees C	
	Operating Humidity	10 ~ 90% (non-condensing)		10 ~ 90% (non-condensing)		10 ~ 90% (non-condensing)		10 ~ 90% (non-condensing)	

Indoor/Outdoor Wireless Accessories

Sector Antenna			Omni-directional Antenna				
Model	ANT-SE17D	ANT-SE17AD	ANT-OM5D	ANT-OM8	ANT-OM9	ANT-OM10A	ANT-OM15
Product Image							
Operating Environment	outdoor	outdoor	outdoor	outdoor	indoor	outdoor	outdoor
Type	Dual-polarity Sector Antenna	Dual-polarity Sector Antenna	Omni-directional	Omni-directional, General purpose	Omni-directional, General purpose	Omni-directional	Omni-directional, General purpose
Gain	2 x 16.5 dBi	2 x 17 dBi	2.4GHz: 4.5dBi 5GHz: 7dBi	8 dBi	9 dBi	10 dBi	15 dBi
Horizontal Beamwidth (degrees)	 90	 90	 360	 360	 360	 360	 360
Vertical Beamwidth (degrees)	 7	 7	 80 (2.4GHz)  55 (5GHz)	 10	 15-18	 6	 10
Connector	N-female x 2	N-female x 2	N-male (male pin)	N-female (female pin)	RP-SMA(M)	N-female (female pin)	N-female (female pin)
Mounting Type	Mast Mount	Mast Mount	N/A	Mast mount	N/A	Pole/Wall mount	Mast mount

Flat Panel Antenna				
Model	ANT-FP14D	ANT-FP14AD	ANT-FP18	ANT-FP18A
Product Image				
Operating Environment	outdoor	outdoor	outdoor	outdoor
Type	Uni-directional, Flat panel Dual Polarization		Uni-directional, Flat panel	Uni-directional, Flat panel
Gain	14 dBi	14dBi	18 dBi	18 dBi
Horizontal Beamwidth (degrees)	 30	 30	 30	 10
Vertical Beamwidth (degrees)	 30	 30	 20	 10
Connector	N-female x2	N-female x 2	N-female (female pin)	N-female (female pin)
Mounting type	Mast mount	Mast mount	Wall mount	Pole/Wall mount

Cable & Others	
Model	WL-LTNA
Product Image	
Description	Lightning Arrester
Frequency	0~6GHz
Type	Gas Discharged
Gain Loss	Less than 0.5dB
Max. Withstand Current	20KA
Connector	N-male (male pin) to N-female (female pin)

Cable & Others			
Model	WL-SMA-0.6	WL-SMA-6	WL-N-0.6
Product Image			
Description	0.6m Reverse SMA (Male) to N-male (male pin) Cable		0.6m N-male (female pin) to N-male (male pin) Cable

Cable & Others			
Model	WL-NM-0.6	WL-MF-0.6	WL-MMC
Product Image			
Description	0.6m N-male (male pin) to N-male (male pin) Cable	0.6m N-male (male pin) to N-female (female pin) Cable	0.3m MMCX to SMA Cable



PLANET Technology Corporation

11F., No. 96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C) Tel: +886-2-22199518 Fax: +886-2-22199528 E-mail: sales@planet.com.tw
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