

## Product Highlights

- 802.11a/n, 2 X 2 MIMO, 300 Mbps
- Time Division Multiple Access+ (TDMA+)
- VTrans Technology for superior performance
- High Gain 23dBi Directional Antenna
- Multiple Operation Modes



## DAP-F3705-N

# 802.11a/n Outdoor Wireless Bridge

### Features

- Support 802.11a/n standard.
- Supports 2x2 MIMO technology.
- Wireless Speed up to 300Mbps
- High Gain Directional Antenna
- Support Multiple operation modes: Access Point, Client, WDS Access Point, WDS Client
- Core Vtrans technology, including TDMA, MIMO and other industry-leading technology
- Supports Point to Point connection
- Supports centralized configuration and management using hardware controller or cloud
- Wireless multimedia optimization technology guarantees the stability of video traffic transmission
- Supports Passive PoE power supply making installation very convenient
- Supports SNMP management
- IP66 ABS shell to ensure the stable operation of equipment for outdoor

DAP-F3705-N is a powerful wireless broadband access and transmission product. This product's built in VTrans wireless technology incorporates a number of industry-leading core technologies including MIMO-OFDM, TDMA, Auto ACK etc. to ensure high throughput and reliable wireless signal coverage under various application scenarios.

DAP-F3705-N can provide customers with stable outdoor wireless signal coverage, to ensure that customers enjoy a stable, high quality, convenient broadband services. The product structure design takes full account of harsh environment applications and comply with the IP66 standard. At the same time, it has the characteristics of mildew prevention, corrosion protection and lightning resistance. Therefore, the product can be deployed in almost all kinds of harsh environments. This model can be widely used in below various applications.

- ✓ Wireless video surveillance (Transportation, smart city, oil and gas pipelines, forest fire, residential areas and other key areas of monitoring)
- ✓ Wireless video / data transmission and wireless coverage in railway, electric power and other industries
- ✓ Wireless backhaul network construction.

Technical Specifications			
Hardware Features	Processor	Atheros AR9344	
	Memory	64MB DRAM	
	Flash	8MB	
	Interfaces	1* 10/100 Mbps Ethernet Port (LAN / PoE)	
		Reset button	
	Power Requirement	24VDC/0.5A Passive PoE Adapter	
	Antenna Gain	23dBi	
	Beamwidth	H:10°, V:10°	
	Protection	8KV ESD Protection	
		4KV Lightning Protection	
Enclosure	ABS		
	IP66		
Wireless Features	Wireless Standard	IEEE 802.11 a/n	
	Operating Frequency	5.150 ~ 5.350Ghz	
		5.470 ~ 5.875Ghz	
	Maximum transmit Power	21dBm	
	Wireless Speed	Up to 300 Mbps	
	Wireless Security	WPA-PSK, WPA2-PSK, 802.1x	
	Vtrans Technology	TDMA Support	
		5/10/20/40Mhz bandwidth support	
		Intelligent rate control	
		Jtrans support: Co-channel interference avoidance	
		Auto Ack-Timeout support	
	Wireless Configuration	Auto Channel Support	
		Transmit Power Selection	
		SSID Broadcast enable / Disable	
		Selectable Max. Transmit Rate	
		Wi-Fi Multimedia	
	Wireless Advance	Manual distance setup	
		data frames Aggregation	
		Multicast support	
		Client isolation	
Max. station Limit			
Signal strength LED value support			

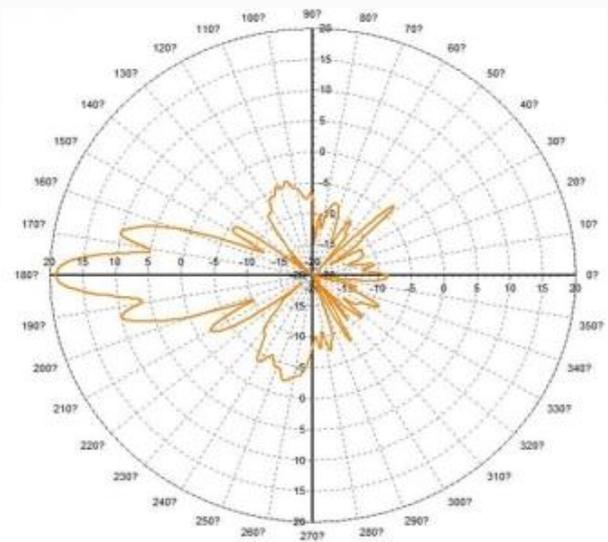
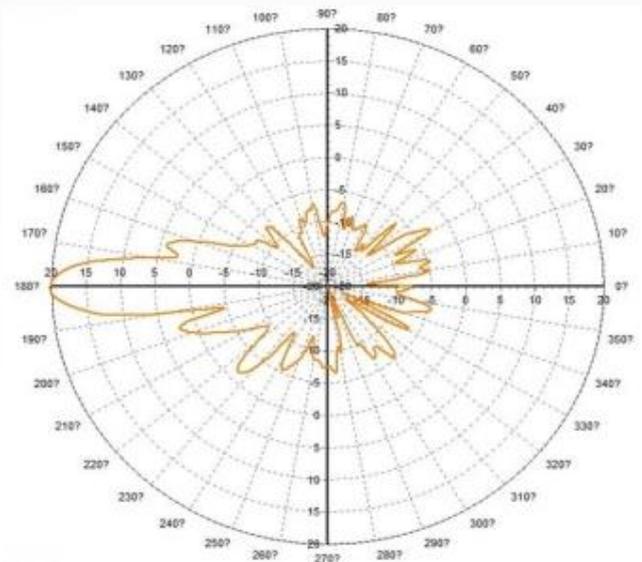
Software Features	Network Mode	Bridge, Router
	Operation Mode	Bridge: Access Point, Station, WDS Access Point, WDS Station
	Network Configuration	WAN Type: Static IP, DHCP, PPPoE
		LAN: Static, DHCP
		VLAN Support
		Firewall: IP / MAC Filter
		Traffic Shaping
	Management	Web-based configuration
		AC remote management
		SNMP Management
	System Tools	Ping
		Traceroute
		Reboot Schedule
		NTP
		Ping Watchdog
		Syslog
		Spectrum Analyzer
Throughput testing (Iperf)		
Monitors: Throughput, Interfaces, Routes table, Bridge table, ARP table, AP information, Syslog		
Firmware upgrade	Web-based upgrade	
	Remote AC central upgrade	
Others	Weight	0.9kg
	Dimensions	Diameter: 372.2, Thickness: 241.02
	Environment	Operating temperature: -40°C ~ 60°C
		Storage temperature: -40°C ~ 85°C
		Operating Humidity: 5% ~ 95% RH non-condensing
	Max. Power consumption	<= 8W
	Mounting Kit	Pole Mounting Kit
	Package Contents	DAP-F3705-N (Device host x1, bracket x1, antenna x 1
		24V 0.5A PoE Adapter
		Power Cord
Clamp		
OIG		

RF Index							
TX Power				Sensitivity			
	Date Rate	Avg. TX	Tolerance		Date Rate	Avg. TX	Tolerance
11a	6Mbps	21dBm	+/-2dBm	11a	6Mbps	-85dBm	+/-2dBm
	54Mbps	19dBm	+/-2dBm		54Mbps	-72dBm	+/-2dBm
11n	HT20_MCS0	21dBm	+/-2dBm	11n	HT20_MCS0	-85dBm	+/-2dBm
	HT20_MCS7	18dBm	+/-2dBm		HT20_MCS7	-67dBm	+/-2dBm
	HT40_MCS0	21dBm	+/-2dBm		HT40_MCS0	-83dBm	+/-2dBm
	HT40_MCS7	18dBm	+/-2dBm		HT40_MCS7	-65dBm	+/-2dBm

## Radiation Pattern

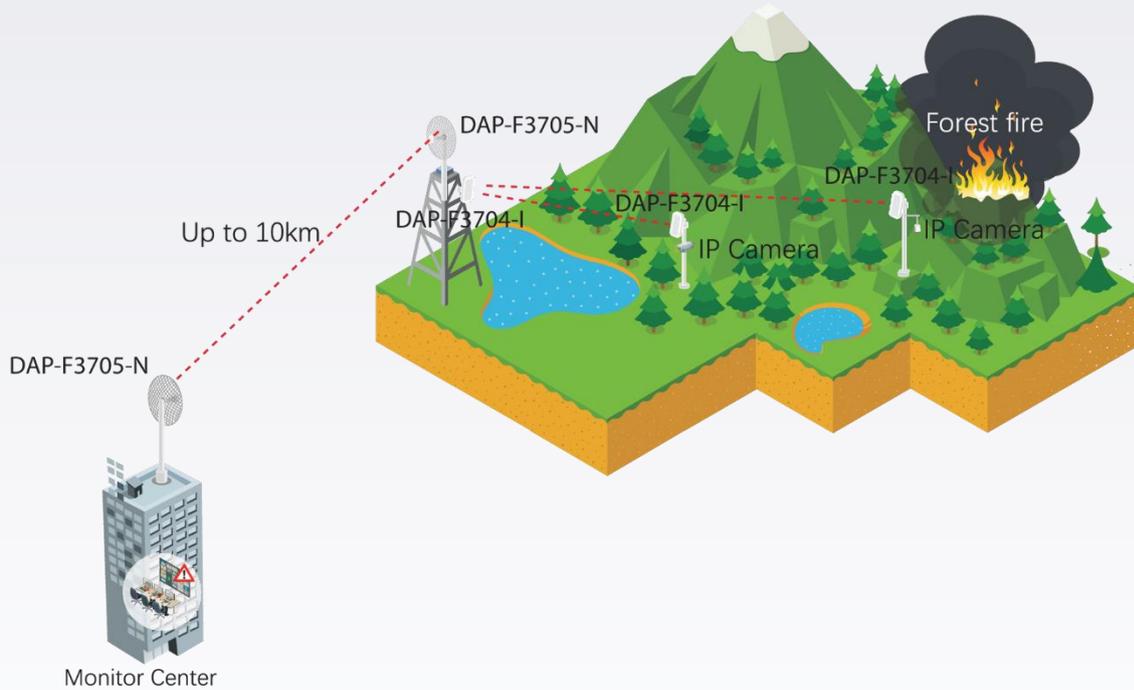
Radiation pattern as shown in the figures below:

- Horizontal
- Vertical



### Application Scenario:

DAP-F3705-N is ideal for point to point applications.



### Smart Assembly:

With the smart mechanical design, it's very easy and convenient to assemble & disassemble DAP-F3705-N without any tool.

