D-Link
Building Networks for People

Product Highlights

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

DAP-F3704-I

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
- Support point-to-point and point-to-multipoint connection
- Supports centralized configuration and management using hardware controller or cloud
- Unique TDMA technology can maximize the use of bandwidth resources to better support point-to-multipoint data transmission
- Supports Passive PoE power supply making installation very convenient
- Supports SNMP management
- IP65 Waterproof and UV proof shell to ensure the stable operation of equipment for outdoor

DAP-F3704-I is a powerful wireless broadband access and transmission product. This product's built in VTrans 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.

TDMA technology allows each device to work in a set time slot and overcomes the limitations of the traditional Wi-Fi can only transfer a few hundred meters, it can overcome the shortcomings of the 802.11 protocol, supporting remote point to multi-point communication.

DAP-F3704-I has a maximum transmission rate of 300Mbps, excellent long-distance transmission performance, and can transmit multi-channel HD videos. It can be used as point to point and point to multi-point remote access wireless bridge. 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)
		1* 10/100 Mbps Ethernet Port (LAN 1)
		Reset button
	Power Requirement	24VDC/0.5A Passive PoE Adapter
	Antenna Gain	10dBi
	Beamwidth	H:65^0, V:18^0
	Protection	8KV ESD Protection
		4KV Lightening Protection
	Enclosure	Outdoor UV Stabilized Plastic
		IP65
Wireless Features	Wireless Standard	IEEE 802.11 a/n
	Operating Frequency	5.150 ~ 5.350Ghz 5.470 ~ 5.875Ghz
	Maximum transmit Power	24dBm
	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 avoid
		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

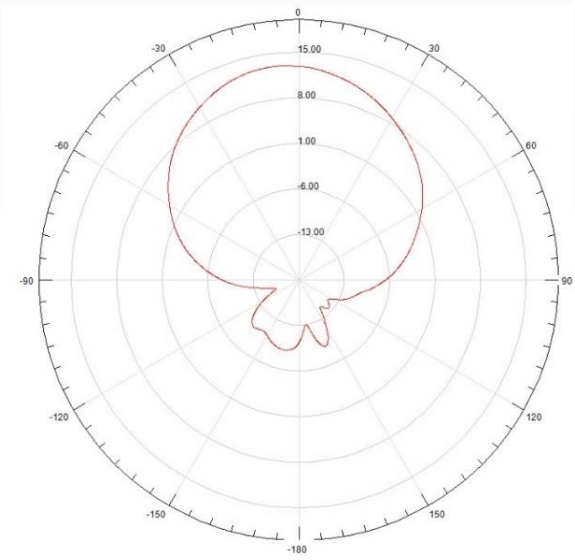
Software Features	Network Mode	Bridge, Router
	Operation Mode	Bridge: Access Point, Station, WDS Access Point, WDS Station
	Network Configuration	WAN Type: Static IP, DHCP, PPPoE
		LAN: Static, DHCP
		VLAN Support
		Firewall: IP / MAC Filter
		Traffic Shaping
	Management	Web-based configuration
		AC 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	0.25kg
	Dimensions (LxWxH)	200 x 98.8 x 45.5 (mm)
	Environment	Operating temperature: -30°C ~ 70°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-F3704-I
		24V 0.5A PoE Adapter
		Power Cord
		Clamp
		QIG

RF Index							
TX Power				Sensitivity			
	Date Rate	Avg. TX	Tolerance		Date Rate	Avg. TX	Tolerance
11a	6Mbps	24dBm	+/-2dBm	11a	6Mbps	-85dBm	+/-2dBm
	54Mbps	22dBm	+/-2dBm		54Mbps	-72dBm	+/-2dBm
11n	HT20_MCS0	24dBm	+/-2dBm	11n	HT20_MCS0	-85dBm	+/-2dBm
	HT20_MCS7	22dBm	+/-2dBm		HT20_MCS7	-67dBm	+/-2dBm
	HT40_MCS0	24dBm	+/-2dBm		HT40_MCS0	-83dBm	+/-2dBm
	HT40_MCS7	22dBm	+/-2dBm		HT40_MCS7	-65dBm	+/-2dBm

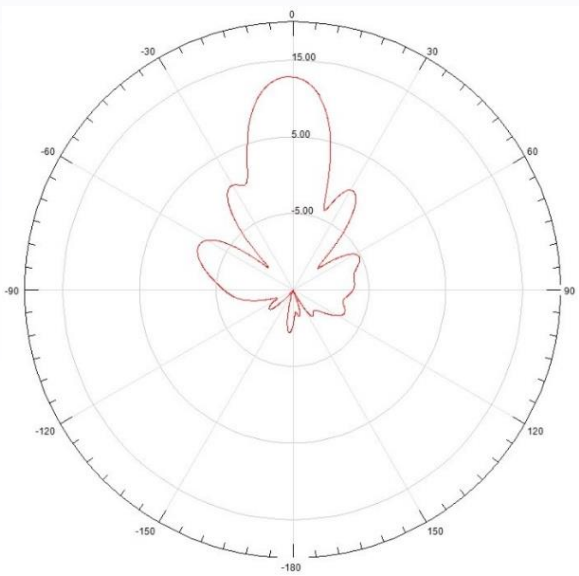
Radiation Pattern:

Radiation pattern as shown in the figures below:

- Horizontal



- Vertical



Application Scenario:

DAP-F3704-I is ideal for point to point and point to multi-point applications.