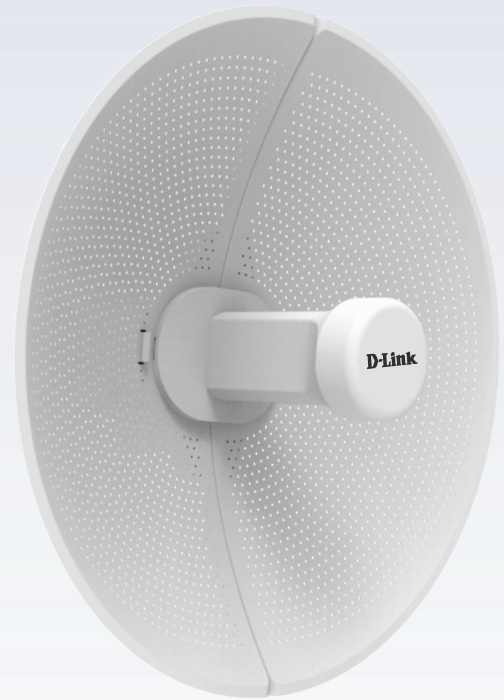## Product Highlights

• 802.11 a/n/ac 2 x 2 MIMO 867 Mbps

• TDMA+ Technology for superior performance

• High Gain 23dBi Directional Antenna

• Transmission distance 0~20Km

• Operating Temp. -40˚~65˚

DAP-F3712-N
802.11a/n/ac Outdoor Wireless Bridge

TDMA	Intelligent Rate Control	ACK Time-out Adjustment	2x2 MiMo	High Throughput
PTP	Long Distance Coverage	Gigabit Ethernet	Hardware Watchdog	POE+

Provides stable wireless coverage

Summary

DAP-F3712-N is a new generation of 802.11ac 2x2 bridge for outdoor applications. This product built in unique VTrans wireless technology, which incorporates a number of industry-leading core technologies, including MIMO-OFDM, TDMA, Beam forming, Auto ACK, etc, to ensure high throughput and reliable wireless signal coverage under various application scenarios.

DAP-F3712-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 take full account of harsh environment applications, and comply with the IP67 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.

Product Feature

• Supports 802.11ac standard, and 2x2 MIMO technology

• Transmission distance: 0~20km

• Max transmission rate: 867Mbps

• Integrated VTrans technology

• Supports multiple operation modes: AP, Station, WDS AP,
   WDS Station

• Supports PPPOE and routing modes

• Wireless multimedia optimization technology guarantees
   the stability of video and traffic transmission

• Supports dual backups firmware

• Web based operation management makes the installation
   and maintenance of equipment more convenient

• Supports remote configuration and upgrade management
   by AC

• Supports SNMP management

• Standard 802.3at Power over Ethernet (POE+)

• IP67

Product Introduction

Industrial Leading product design

The DAP-F3712-N has the industrial leading technology, owing the performance capability of a wireless base station with only a small form factor.

The DAP-F3712-N complies with the 802.1ac standards, provides up to 867Mbps throughput.

The product utilizes a series of advanced technologies such as TDMA, Bandwidth configuration, MIMO and so on, all embedded in the integrated VTrans system, high throughput, point to point transmission and anti-interference capabilities are guaranteed for wireless transmission of equipment.

Product Feature

• VTrans utilize the most advanced technologies

• TDMA technology can solve the problems of hidden-node problem in the 802.11 network, improves PTMP performance and wireless bandwidth efficiency and noise immune performance.

• MIMO can improve wireless transmission rate and signal quality;

• 20/40/80MHz bandwidth configuration allows users to freely choose the right bandwidth;

• Automatic rate adjustment, which can well adapt to changes in quality of the transmission link;

• Free configuration Wi-Fi port for WAN or LAN port;

Dual ports and POE power supply technology

• The POE power supply device obviates the long-distance power supply trouble, which can be directly connected to the POE switch;

Application Scenario
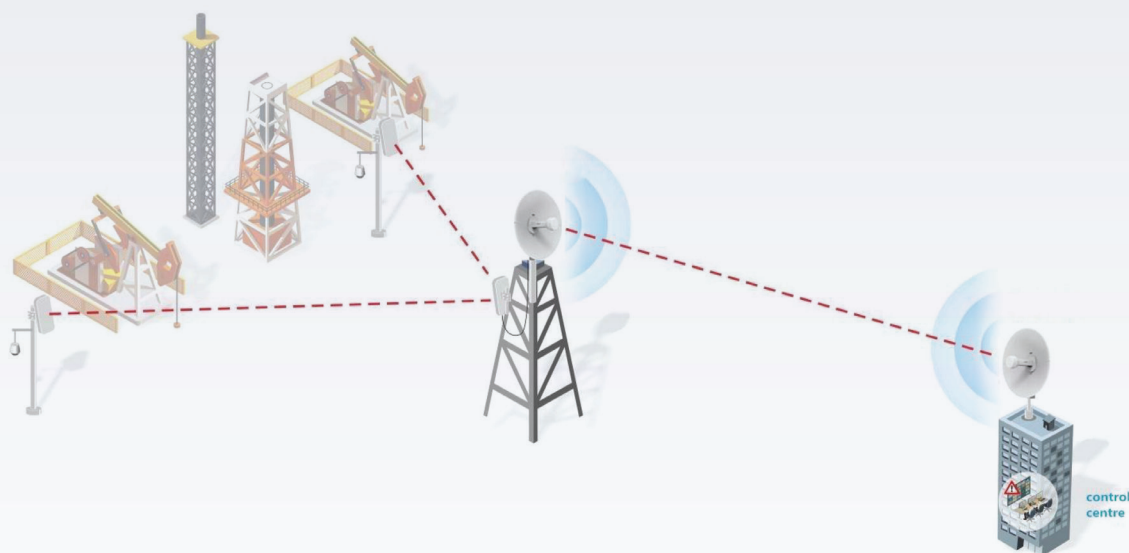
RF Index							
TX Power				Sensitivity			
Date Rate Mbps	Avg. TX	Tolerance		Data Rate Mbps	Avg. TX	Tolerance	
11a	6~24	27dBm	+/- 2dBm	11a	6	-91dBm	+/- 2dBm
	54	24dBm	+/- 2dBm		54	-72dBm	+/- 2dBm
11n	MCS0~4	27dBm	+/- 2dBm	11n	MCS0/8 HT20	-85dBm	+/- 2dBm
	MCS7	24dBm	+/- 2dBm		MCS7/15 HT20	-67dBm	+/- 2dBm
	MCS 8~12	27dBm	+/- 2dBm		MCS0/8 HT40	-82dBm	+/- 2dBm
	MCS15	24dBm	+/- 2dBm		MCS7/15 HT40	-64dBm	+/- 2dBm
11ac	MCS 0~4	27dBm	+/- 2dBm	11ac	MCS0/10 HT20	-85dBm	+/- 2dBm
	MCS 9	23dBm	+/- 2dBm		MCS9/19 HT20	-60dBm	+/- 2dBm
	MCS10~14	27dBm	+/- 2dBm		MCS0/10 HT80	-79dBm	+/- 2dBm
	MCS 19	23dBm	+/- 2dBm		MCS9/19 HT80	-54dBm	+/- 2dBm

Specifications

Hardware Specifications	
CPU/Baseband Radio	IPQ4028
Memory	256MB DDR3
Flash	32MB
Physical Interface	1×10/100M /1000MBase-TX (Cat. 5/5E, RJ-45)
Power Requirement	POE+ 48V

Software Specifications	
Protocol	802.11a /n/ac, TDMA
Operation Mode	AP, Station, WDS AP, WDS Station
Networking	Bridge, Router
Operating Frequency	5180~5320MHz, 5745~5825MHz（More Non-standard channels is availability ,4920~6100MHz）
Security	WPA-PSK/WPA2-PSK
Configuration	Web-based configuration, AC Management, SNMP Management
Firmware Update	Firmware update via browser or AC

Physical/Electrical/Environmental/Antenna	
Enclosure Characteristics	ABS
Mounting Kit	Pole Mounting Kit
Working Temperature	-40℃ to 65℃
Storage Temperature	-40℃ to 85℃
Weight	0.9kg
Max Power Consumption	<=25W
Antenna Gain	23dBi

Dimensions

372.2mm

372.2mm

147.4mm 93.62mm