

低溫物流專用 無線網路基站

具有雙頻 **5GHz / 2.4GHz**

多頻道 多天線 全雙工

行動網格技術

無線網路基站

▶ **MeshAP 3100**

ARROWSPAN



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智慧型傳輸骨幹

獨家專利的無線網格網路演算法 (Wireless Mesh Networks, WMN) 可以橫跨數個物流倉儲空間，支援 POE，架設容易，插入即用的簡易安裝。



可靠，高效能無線網格網路

以專利的演算法，提供自動尋找與自動組態功能，即時尋找最佳路徑，與自動修復最佳可預期路徑。

完全相容於既有伺服器，路由器與閘道器可以直接連接到現有設備，無線網路支援 802.11g / 802.11b 標準。

適合低溫環境下作業

能適應環境變化 $-40^{\circ}\text{C} \sim 55^{\circ}\text{C}$ ，防水耐天候設計 (IP66)

高通量網格網路

藉由多頻段，多重通道輸送設計，刪減無線訊號干擾與訊號衝突問題。



Specific 產品規格

無線

Backhaul Radio

Number of Radio : 2

Frequency : 5.8GHz / 5.4GHz/ 5.3GHz/ 4.9GHz ISM radio band

Frequency Bands : 4.9 – 5.091 GHz

5.470 – 5.725 GHz, 5.725 – 5.850 GHz

Modulation : OFDM (64-QAM, 16-QAM QPSK, BPSK)

Data Rates : 6, 9, 12, 18, 24, 36, 48, 54 Mbps

Tx Radio Power : up to 27dBm (avg)*

Receiving Sensitivity :

-82dBm @36 Mbps, -78dBm @48 Mbps, -76dBm @54Mbps

Antenna & Connector :

(2x) 5Ghz omni directional or directional antenna

(2x) N-type outdoor waterproof connector

Access Point Radio

Number of Radio : 1

Standard : IEEE 802.11g, 802.11b

Media Access Protocol : CSMA / CA with ACK

Frequency : 2.4GHz ISM radio band

Frequency Bands : 2.4 – 2.462 GHz

Modulation :

802.11g : OFDM (64-QAM, 16-QAM QPSK, BPSK)

802.11b : CCK (11, 5.5MHz), DQPSK (2Mbps), DQPSL (1Mbps)

Data Rates :

802.11g : 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11b : 1, 2, 5.5, 11 Mbps

Tx Radio Power : up to 27dBm (avg)*

Receiving Sensitivity :

-82dBm @36 Mbps, -78dBm @48 Mbps, -76dBm @54Mbps

Channels:

802.11g : USA, Canada, Saudi Arabia, Taiwan : 11

Most European countries, China : 13

France : 4

Japan : 14

802.11b : USA, Canada, Saudi Arabia, Taiwan : 11

Most European countries, China : 13

France : 4

Japan : 14

Hardware Specification

Network Port

(1) 10 / 100 Mbps auto crossover Ethernet WAN Port, waterproof connect

Power

Power Interface : POE

Input : 48VDC 380mA

Environment Conditions

Operating Temperature : -40°F to 131°F (-40°C to 55°C)

Storage Temperature : -50°F to 158°F (-58°C to 70°C)

Humidity : 95% maximum relative humidity, non-condensing

Physical Specifications

Dimension : 23.4cm x 17cm x 6.3cm

Weight 1.5kg

Enclosure

Rating : IP66 water proof

Vertical / Horizontal mounting kit

Regulatory Compliance

Certification : FCC Part 15

(Please contact ArrowSpan for other Certification)

Mesh Network Performance

Up to 30Mbps backhaul throughput at 5th hop count*

Operating Range

Backhaul

Node-to-node Distance : up to 4km or up to 50km (3100-X model)

802.11g

Client AP : 150m(492fit)@54Mbps

500m(1640fit)@6Mbps

*Note: (1). Actual Txpower dBm depends on regulation and product model.

(2). Transmission speed vs. distance may vary according to the environment, government regulation, and product model.

(3). Node to node distance depends on regulation, product model, and antenna gain