



PRODUCT DATA SHEET FOR AIRLINK 510 AP

5GHz LONG DISTANCE OFDM WIRELESS SYSTEM

802.11a

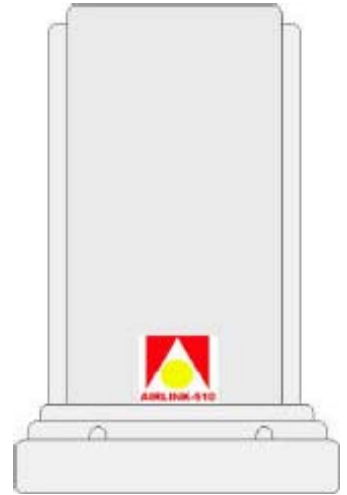
54 Mbps

The Ascend Airlink 510 AP provides **cost effective long distance (12Km) wireless network** that using Second Generation OFDM technology with 802.11a (5GHz, 54Mbps) wireless standards.

The Ascend Airlink 510 AP has **19 dBi built-in** high transmitted output power and receivable sensitivity **antenna**.

To protect your wireless connectivity, Ascend Airlink 510 AP can encrypt all wireless transmissions through **48/104/128-bits WEP data encryption** and also supports WAP/WAP2/802.1x for powerful security authentication. Factory default WEP encryption is 104-bits.

It provides **Point-to-Point** or **Point-to-Multipoint** Network connectivity and **near Line-of-Sight, Non Line-of-Sight** also.



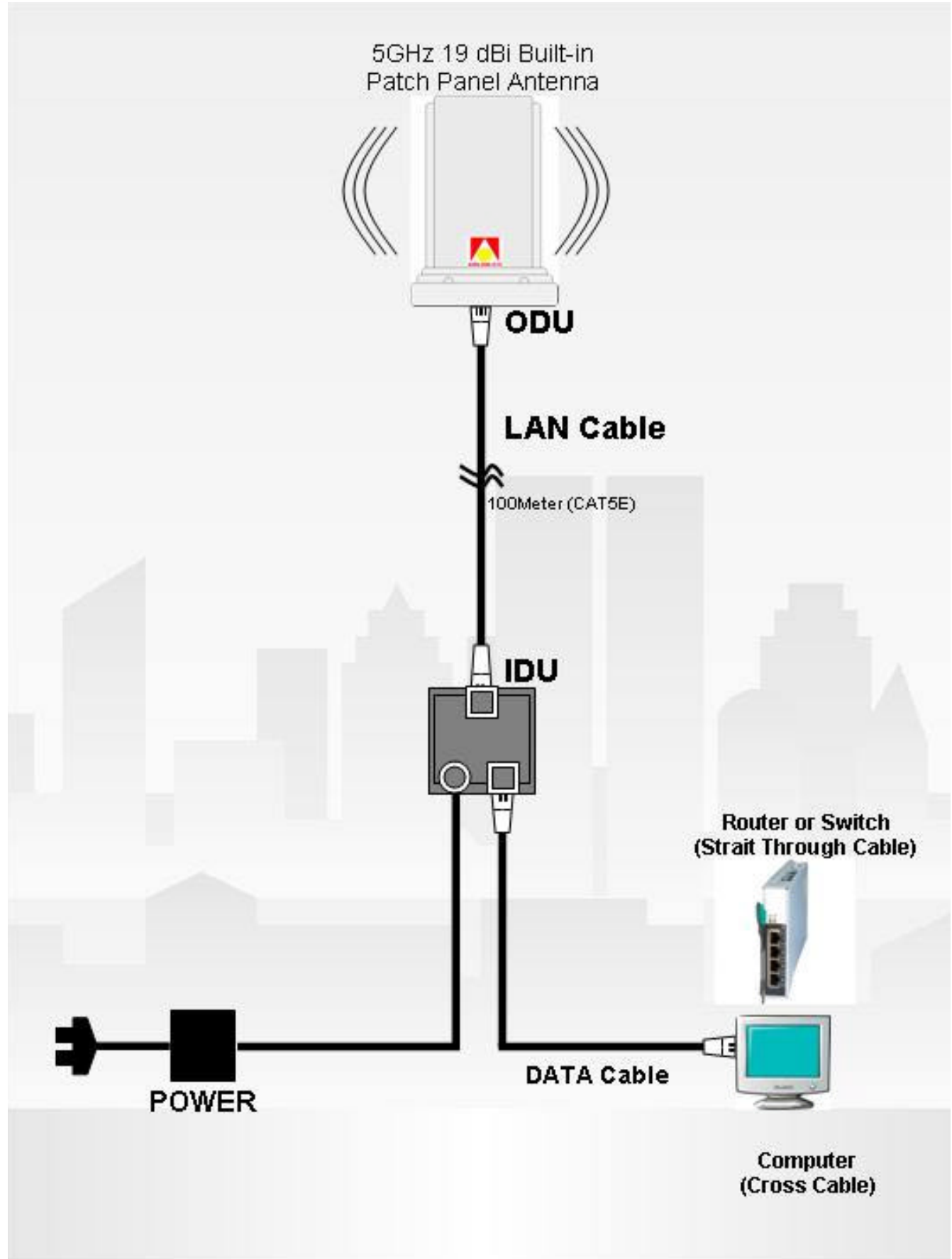
Feature	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
Built -in 19dBi Output Power Panel Antenna	Excellent output power without optional antenna.
Point-to-Point, Point-to-Multipoint Wireless Connectivity	Let users transfer data between two locations or multiple locations
WPA / WPA2 / IEEE 802.1x support **	Powerful authentication for data security
Suppress SSID (AP mode)	Avoid unallowable users sharing bandwidth, Increases efficiency of the network
Web-Based / Telnet Remote Configuration Management	Help administrator to remotely configure or manage the access point easily.
Power-Over-Ethernet (IEEE 802.3af)	Easy installation with LAN cable
Full Range of 5GHz Frequency	The 802.11ra provides Extended Frequency range from 4.9GHz to 6.1GHz (117 Channels)
Near Line-of-Sight, Non Line-of-Sight	Second Generation OFDM technology supports Near line-of-sight and non line-of-sight
Default 104-bit s WEP encryption	Factory default encryption. Impossible hacking through air.

- THEORETICAL WIRLESS SIGNAL RATE BASED ON IEEE STANDER OF 802.11A CHIPEST UESED .ACTUAL THROUPUT MANY VARY.NETWORK CONDITION AND ENVIROMENTAL FACTORS LOWER ACTUAL THROUPUT RATE.
- ALL SPECIFICATION ARE SUBJECT TO CHANGE WITHOUT NOTICE.



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Date Rates

6,9,12,18,24,36,48,54 (Auto)

Standards

IEEE802.11a, IEEE802.3,
IEEE802.3u, IEEE802.3af
IEEE802.1x

Compatibility

IEEE802.11a

Power Requirements

Power Supply: 90 to 240 V
Device: 48V/2A

Status LEDs

LAN: Link, Power: on/off

Regulation Certifications

FCC Part 15/UL, ETSI
300/328/CE

RF Information

Built-in Patch Panel 22 ° ,
8 ° Vertical

Frequency Band

802.11a : 4.925~6.085GHz

Media Access Protocol

Carrier Sense Multiple
Access with Collision
Avoidance (CSMA/CD)

Modulation Technology

Second Generation OFDM
BPSK @6 and 9Mbps
QPSK@12 and 18 Mbps
16-QAM @24 and 36 Mbps
64-QAM @48 and 54 Mbps

Operating Channels

117 for 802.11ra-RA
Country Mode

Receive Sensitivity (Typical)

5.15 ~ 5.85GHz
6Mbps@ -88dBm
54Mbps@ -70dBm

Available Transmit Power (Typical)

- 5.15 ~ 5.24GHz
17dBm @6~36Mbps
16dBm @48Mbps
15dBm @54Mbps
- 5.26 ~ 5.35GHz
20dBm @6~24Mbps
18dBm @36Mbps
16dBm @48Mbps
15dBm @54Mbps
- 5.475 ~ 5.85GHz
18dBm @6~24Mbps
16dBm @36Mbps
14dBm @48Mbps
13dBm @54Mbps

Networking

Topology

Standard Ethernet

Operation Mode

Point-to-Point,
Point-to-Multi-Point

Interface

ODU: One RJ-45
One RS-232
IDU: Two RJ-45
One Power Jack
* RJ-45 supports
10/100 Base-T

Security

IEEE 802.1x Authenticator /
RADIUS (EAP-MD5/TLS/TTLS)
Support in AP Mode

WPA/WPA2 supplicant
Support in Client Mode
WPA2/WPA/Pre-share Key
(PSK) / AES/TKIP **
Suppress SSID in beacons

Encryption

WEP 48/104/128-bits
Encryption
* Default: 104bits

Wireless Range

12Km (Point-to-Point)
7Km (Point-to-Multipoint)

Management Configuration

Web-based Configuration
(HTTP)
Telnet Configuration
(CLI)

Firmware Upgrade

Upgrade firmware via
Web browser

Environmental

Temperature Range

Operating: -20 ° C to 70 ° C
Storage: -40 ° C to 90 ° C

Humidity (non-condensing)

5% ~ 95% Typical

Package Contents

One ODU (Out Door Unit)
One IDU (In Door Unit)
One Power Adapter
One CD-ROM with User's
Manual

** The special configuration has to request to Manufacture.