

Bay Area Compliance Laboratory Corporation

EC Identification number 1313

Authorized by the European Union to act as Conformity Assessment Body in accordance with the R&TTE Directive 1999/5/EC, 2003-03-09

CERTIFICATE EXPERT OPINION

Report-No.:

S0410068

Certificate Holder:

Proxim Corporation 935 Stewart Drive Sunnyvale, CA 94085

Product Designation:

AP-AG-AT-02 & 8670-XXX where XXX used to represent destination country SKU

Product Description:

ORINOCO AP-4000 Tri-Mode Access Point

Product Manufacturer:

UNIVERSAL SCIENTIFIC INDUSTRIAL CO., LTD.

141, Lane 351, Taiping Road, Sec. 1, Tsao Tuen, Nan-Tou, Taiwan, R.O.C.

| Essential requirements | Specifications / Standards | Submitted documents | Result |
|--|---|---------------------|---------|
| Radio spectrum (R&TTE, Article 3.2) | EN 300 328-1 V1.3.1 (2001-12) EN 300 328-2 V1.2.1 (2001-12) EN 301 893 V1.2.3 (2003-08) | Test Reports | Conform |
| EMC (R&TTE, Article 3.1b) | EN 301 489-1 V1.4.1 (2002-08) EN 301 489-17 V1.2.1 (2002-08) | Test Reports | Conform |
| Safety (R&TTE, Article 3.1a) | EN60950-1: 2001 | Test Reports | Conform |

Marking: The product shall bare the CE mark, with our notified body number and the Class II identifier (Alert sign) as shown, on the right.

€1313 ©

Please observe country restrictions stated in user's manual.

The scope of this evaluation relates to the submitted aforementioned documents

The certificate is only valid in conjunction with the following number of annexes. Number of annexes: 1

Sunnyvale, California, USA,

John ch

07 Oct 2004 Date of Issue

Location

John Chan

Conformity Assessment Body

Bay Area Compliance Laboratory Corporation, 230 Commercial Street, Sunnyvale, CA 94085, USA http://www.baclcorp.com

Registration no.: S0410068_Annex1 Date: 2004-10-07

Annex 1 of the Certificate "EXPERT OPINION"

Registration no.: S0410068 Date: 2004-10-07

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Product Characteristics for Wireless Tri-Mode Access Point

| Tri-mode 802.11b, 802.11g and 802.11a support | Pre-configured, simultaneous 802.11b, 802.11g and 802.11a support | |
|---|--|--|
| field upgradeable | Software upgradeable to support new standards | |
| Wi-Fi Protected Access (WPA) including 802.1X and dynamic TKIP encryption | Highest authentication and encryption methods including mutual authentication, message integrity check (MIC), per-packet keys initialization vector hashing and broadcast key rotation | |
| Software upgradeable to AES and 802.11i | Investment protection for compatibility with next industry standard security specification | |
| Rogue AP Detection | Detects, alerts and stops unauthorized reque Access Points in both the 2.4 and 5 GHz bands | |
| Secure Management Interfaces | SNMPv3 and SSE protect against unauthorized AP changes via the management interface | |
| Multiple VLAN Support with different security settings | Up to 16 separate VLANs per radio each able to support a different security setting | |
| Auto configuration via DHCP | Ensures new APs automatically receive correct configuration and prevents security vulnerabilities with deliberate resets | |
| Central management and configuration | Allows centralized management of AP settings including group updates of firmware ¹ | |
| Assured Software Upgrades | Guarantees new AP configuration file is valid before deleting current image - dual image suppor | |
| Quality of Service | Allows simultaneous data and Voice over WILAN solutions from Spectralink2 | |
| Transmit Power Control | Supports settable transmit power levels to adjust coverage cell size | |
| Automatic Channel Selection | Simplifies Installation by choosing best possible channel upon installation | |
| Designed for Public Access | Extensive RADIUS Accounting support as well as intra-cell blocking to prevent client-to-client snooping | |
| AP-to-AP Communication | Allows extension of wireless LAN to areas without Ethernet wiring (parking lots, long corridors, etc) for 802.11b, 802.11g and 802.11a | |
| Advanced Filtering Capabilities | IEEE 802.1d bridging with static MAC address filtering, network protocol filtering, Proxy ARP, multicast/broadcast storm theshold filtering, TCP/UDF port filtering, intra-cell traffic filtering, and Spanning Tree support | |
| Active Ethernet and AC Power | Decreases installation costs up to \$1000 per AP when Power over Ethernet is available | |
| Integrated diversity 2.4 and 5 GHz antennas with horizontal and vertical polarization | Delivers optimum coverage in any mounting position and excellent performance in high multipath environments | |
| External antenna connectors for 802.11b/g and 802.11a | Allows use of shaped and higher gain antennas to design for most efficient AP placement ³ | |
| Plenum rated | Meets safety and insurance requirements when installed in air spaces | |
| Wi-Fi Certified | Industry certification guarantees interoperability with other Wi-Fi certified clients | |





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Conformity Details

| Evaluated Test Reports | | |
|--|--|--|
| Requirement | Standard, test report number, date & laboratory | |
| Radio spectrum | EN 300 328-1 V1.3.1 (2001-12) | |
| | EN 300 328-2 V1.2.1 (2001-12) | |
| | EN 301 893 V1.2.3 (2003-08) | |
| A STATE OF THE STA | Test Reports S0410068-1, issued Oct. 06, 2004 by | |
| | Bay Area Compliance Laboratory Corp. | |
| EMC | EN 301 489-1 V1.4.1 (2002-08) | |
| | EN 301 489-17 v1.2.1 (2002-08) Test Report S0410068-2 issued Oct. 07, 2004 by | |
| | | |
| | Bay Area Compliance Laboratory Corp. | |
| Safety | EN60950: 2001 | |
| | Test Reports E177793-A11-CB-1 issued Dec. 04, | |
| / (0 / | 2003 by UL International Demko A/S | |

End of Annex 1

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Annex 2 of the Certificate "EXPERT OPINION"

Registration no.: S0410068 Date: 2004-10-07

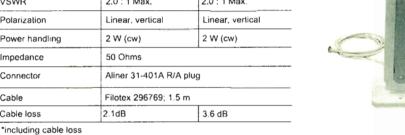
Antenna Information for Wireless Tri-Mode Access Point

Dual-Band Omni-Directional Antenna for 2.4 / 5.25 / 5.6 / 5.8 GHz

R0322-083

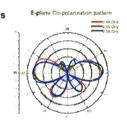
Electrical Specification

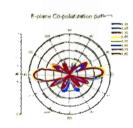
| Frequency range | 2400 MHz - 2500 MHz | 5150 MHz - 5875 MHz |
|-----------------|-------------------------|---------------------|
| Peak gain* | 2.5 dBi | 3.5 dBi |
| Average gain* | 0.5 dBi | 1,5 dBi |
| VSWR | 2.0 : 1 Max. | 2.0 ; 1 Max. |
| Polarization | Linear, vertical | Linear, vertical |
| Power handling | 2 W (cw) | 2 W (cw) |
| Impedance | 50 Ohms | |
| Connector | Aliner 31-401A R/A plug | |
| Cable | Filotex 296769; 1.5 m | |
| Cable loss | 2.1dB | 3.6 dB |



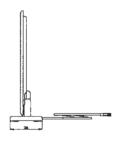
Environmental & Mechanical Characteristics

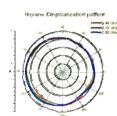
| Temperature | - 10° C to +55° C |
|-----------------|-------------------|
| Humidity | 95% @ 25° C |
| Radome color | White |
| Radome material | ABS+PC |
| Weight | 110 gw |
| Dimensions | 76 x 56 x 194 mm |

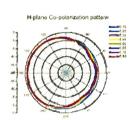












End of Annex 2