SMCE21011
802.11n Wireless Enterprise Access Point

Product Overview
The EliteConnect™ Wireless Access Point (SMCE21011) is based on IEEE 802.11n draft 2.0 standard. It offers data rates of up to 300Mbps either in the 2.4GHz or 5GHz frequency band. The dual-band, single radio Wireless Access Point uses MIMO technology to provide robust and high performance data transmission and increase wireless coverage for enterprise networks. Supporting up to eight Virtual Access Point (VAP) interfaces, the SMCE21011 allows traffic to be separated for different user groups within the same access point service area. Each VAP can be configured with its own Service Set Identification (SSID), security settings, VLAN assignments, and other parameters.

It comes with three detachable dual-band antennas to provide optimal wireless coverage and support for IEEE802.3af Power over Ethernet (PoE) to allow Wi-Fi deployment where power outlets are not available. Using Wi-Fi Multimedia (WMM), the access point is able to prioritize traffic and optimize performance when multiple applications compete for wireless network bandwidth at the same time. WMM employs techniques that are a subset of the developing IEEE 802.11e QoS standard and it enables the access point to inter operate with both WMM-enabled clients and other devices that may lack any WMM functionality.

SMCE21011 complies to IEEE802.11h Regulatory Domain Selection to prevent 5GHz interference with satellites and radar through Dynamic Frequency Selection (DFS) and Transmit Power Control (TPC).

Key Features and Benefits

Wireless 802.11n Technology
Compliant with IEEE 802.11n draft 2.0 and MIMO (Multi-Input Multi-Output) wireless technology.

Advanced Traffic Management
Support up to eight Virtual Access Point (VAP) interfaces. Each VAP can support up to 64 wireless clients, whereby the clients associate with each VAP in the same way as they would with physically separate access points.

Power over Ethernet
Support for IEEE 802.3af Power over Ethernet (PoE) allows Wi-Fi deployment where power outlets are not available.

Enhanced Security
Offers the latest in wireless security technologies by supporting both personal and enterprise versions of WPA/WPA2 (IEEE 802.11i), RADIUS Authentication, Access Control list (ACL), Wireless LAN segmentation and Disable SSID Broadcast.

Full Management Capabilities
Supports Simple Network Management Protocol (SNMP v3), Web (HTTP), Secure HTTP (HTTPS), Secure Sockets Later (SSL), Secure Shell (SSH), and Telnet.

Application Diagram
**Features**

**Physical Ports**
- One 10/100/1000 BASE-T Gigabit Ethernet (RJ-45) port with IEEE 802.3af of Power over Ethernet (PoE) support
- One Console port with RJ-45 connector
- Three RSMA antenna connectors
- Four LEDs: POWER and DIAG/FAIL (System diagnostic), LAN (Ethernet Link/Activity), WLAN (Wireless Link/Activity)
- Reset button
- DC-in jacket

**Standards**
- IEEE 802.11n draft 2.0 2.4GHz and 5.0GHz
- IEEE 802.11a 5.0GHz
- IEEE 802.11b/g, IEEE 802.3ab
- IEEE 802.3af Power over Ethernet (PoE)
- IEEE 802.11h Regulatory Domain Selection
- Wi-Fi Multimedia (WMM)
- Wireless Distribution System (WDS)

**Wireless Frequency**
- **802.11n:** 2.4 – 2.4835 GHz (US, Canada)
- **802.11b:** 2.4 – 2.497 GHz (Japan)
- **802.11a:** 5.15 – 5.25 GHz (lower band) US/Canada, Europe, Japan
- **802.11a:** 5.25 – 5.35 GHz (middle band) US/Canada, Europe, Japan
- **802.11a:** 5.725 – 5.825 GHz (upper band) US/Canada
- 5.50 – 5.70 GHz Europe
- 4.92 – 4.98 GHz Japan
- 5.04 – 5.08 GHz Japan

**Wireless Features**
- Operating Mode: AP / WDS Bridge / WDS Client
- Auto Channel Selection
- Transmit Power Adjustment
- Up to 8 SSIDs and VAP (Virtual Access Point) support
- Support IEEE802.11h DFS/DFS2/DFS3 and automatic TPC

**Security**
- WEP 64-/128-bits
- Wi-Fi Protected Access (WPA/WPA2)
- WPA/WPA2(PSK) over WDS
- Secure SSH (Secure Sockets Shell) Telnet
- Secure Sockets Layer (SSL) remote management login
- HTTPS
- Access Control List
- RADIUS Authentication
- EAP-MD5 / EAP-TLS / EAP-TTLS / PEAP
- SSID Broadcast Disable

**Network Management**
- Industrial CLI (Command Line Interface)
- Web Based Management
- Software Download and Upgrade by TFTP/FTP/HTTP
- Configuration file backup and restore by TFTP/FTP
- SNMP management v1/v2c/v3
- System Information – AP Status / Station Status / Event logs
- Dual Image
- Remote PING support
- SNTP
- Country Selection

**Antenna**
- Type: Omni Direction
- Gain: 3dBi in 2.4GHz, 5dBi in 5GHz

**Regulatory Compliance**
- FCC Part15 Subpart B
- CE
- C-Tick

**Radio Signal Certification**
- FCC Part 15C 15.247, 15.207 (2.4GHz)
- EN 300 328
- EN 301 489-1
- EN 301 489-17
- NCC (Taiwan)
- CCC (China)
- IC

**Mechanical**
- Dimension: 18.8 x 15 x 2.2 cm (7.40 x 5.90 x 0.87 in)
- Weight: 2.65 lbs (1.2 kg)

**Power**
- Input: 100 or 240 VAC, 50-60 Hz
- Output: 48 V/0.38 A
- Power Consumption: 10.56 W maximum

**Environmental Specification**
- Temperature: 0 to 40 Degrees (Standard Operating)
- -20 to 70 Degrees (Storage)
- Humidity: 15% to 95% (Non-condensing)

**Warranty**
- 3 years

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