



Intelicis AeroStream 2000 is a high-performance dual-radio Mesh Access Point / Bridge designed to deliver bandwidth sensitive voice, video and data over a flexible mesh network backbone. With build-in self-configuring and self-recovering mesh architecture, AeroStream 2000 intelligently monitors the wireless network and optimizes the overall performance and availability.

### High Performance Network for Voice, Video and Data

- Optimized mesh network performance with optional SuperAG mode delivers industry-leading throughput for voice, video and data communications
- Dual-radio design increases system performance by allowing one radio focus on Wi-Fi access and other radio to perform mesh related tasks
- Pre-installed high power wireless cards deliver higher signal to noise ratios, which means better coverage and less units to be installed for a large area

### Self-Configuring and Self-Recovering Mesh Architecture

- Self-configuring and self-recovering Mesh network automatically identifies most efficient route for each access point
- In the event that any mesh access point becomes obstructed, the adjacent access points automatically recalculate the network path and reestablish links with each other

### Plug and Play Installation and Network Management

- 802.3af Power over Ethernet (PoE) eliminates the costly installation of AC power outlets for each access point
- Fully integrated with Intelicis indoor access points, extending wireless connectivity from indoor to outdoor or vice versa
- Additional network equipment such as surveillance cameras can be easily connected via the extra Ethernet port
- Web based GUI management tool allows configuring and managing the entire wireless network from a central location
- Build-in temperature control automatically maintains internal temperature; ideal for areas with extreme weather conditions

### Advanced Security

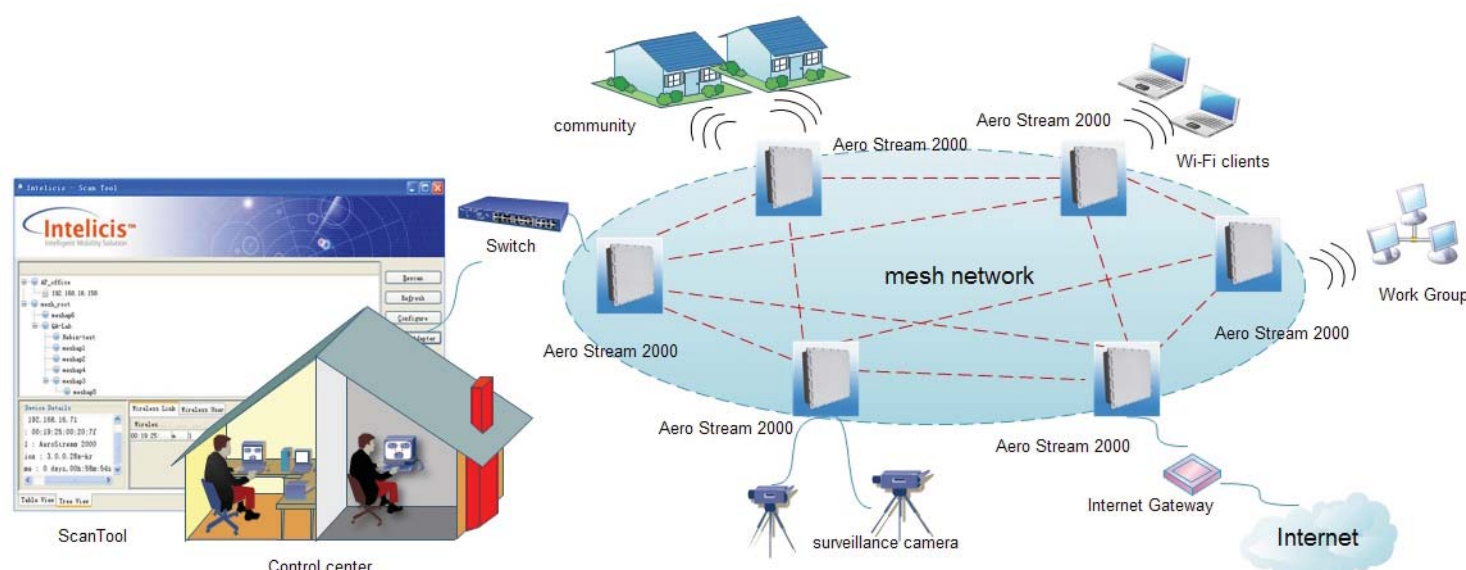
- Support of dynamic WEP, TKIP, AES and 802.11i protects sensitive information over the wireless channel
- 802.1x EAP authentication with dynamic key management ensures only authorized users can access wireless resource
- MAC authentication adds extra security and authenticates legacy devices that do not have EAP clients

### Applications

- Municipal/Metro area, airport, stadium and public transit broadband coverage
- Mission-critical video applications, such as video surveillance monitoring
- University and school full Wi-Fi coverage
- Oil rig industry
- Utility distribution and substation automation

### Operation Modes

- **Access Point** - provide wireless connectivity for clients such as laptops and PDAs
- **Point to Point and Point to Multi-Point Bridge** - cover hard-to-reach areas
- **Mesh Network** - self-configuring and self-recovering mesh network for large scale metro areas



### Ordering Information

#### AS2000

Intelicis outdoor wireless access point  
2 pre-installed 802.11a/b/g radios up to 400mW  
2 Ethernet ports

#### AS2000-24

Intelicis outdoor wireless access point  
2 pre-installed 802.11a/b/g radios up to 400mW  
2 Ethernet ports  
1 18dBi 2.4GHz embedded antenna

#### AS2000-58

Intelicis outdoor wireless access point  
2 pre-installed 802.11a/b/g radios up to 400mW  
2 Ethernet ports  
1 23dBi 5.8GHz embedded antenna

### About Intelicis

Intelicis is a global provider of wireless network infrastructure for the rapidly expanding WLAN marketplace.

Its multi-service wireless network product families, including mobility management centers, multi-service wireless controller and enterprise access points, provide a feature riched, fully integrated, easy-to-use and cost effective WLAN solution to meet today growing business needs.

### Intelicis Corporation

4633 Old Ironsides, Suite 150  
Santa Clara, CA 95054, USA  
www.intelicis.com  
Tel (408) 496-6380  
Fax (408) 496-6248

## Specifications

### Network Interface

#### Ethernet Ports

Two IEEE 802.3 10/100BaseT Fast Ethernet ports (RJ-45)  
Auto negotiation for the rate, duplex and polarity  
IEEE 802.3af Power over Ethernet

#### Wireless Ports

Two pre-installed 802.11 a/b/g (2.4G or 5.8G) radio cards

**IEEE 802.11a Mode**  
IEEE 802.11a OFDM radio  
Media Access Protocol : CSMA/CA with ACK  
Power Output : 23dBm with power level control

Data Rate:  
108Mbps (Atheros Super AG mode)  
54/48/36/24/18/12/9/6 Mbps

Frequency Band:  
5.150 - 5.250 GHz (lower band) for US/Canada/Japan  
5.250 - 5.350 GHz (middle band) for US/Canada  
5.725 - 5.825 GHz (upper band) for US/Canada  
5.500 - 5.700 GHz for Europe

**IEEE 802.11bg Mode**  
IEEE 802.11bg CCK and OFDM radio  
Media Access Protocol : CSMA/CA with ACK  
Power Output: 23dBm (802.11b) and 23dBm (802.11g) with power level control

Data Rate:  
108Mbps (Atheros Super AG mode)  
11/5.5/2/1 Mbps legacy CCK rates  
54/48/36/24/18/12/9/6 Mbps

Frequency Band:  
2.412 - 2.462 GHz for US and Canada  
2.412 - 2.484 GHz for Japan  
2.412 - 2.472 GHz for Europe

#### Wireless Management

Intelicis AutoMesh Protocol  
Automatic channel selection  
Mesh auto discovery and auto healing  
Transmission power control  
RTS/CTS threshold setting  
Fragmentation threshold setting  
Selectable Beacon and DTIM interval  
Load balancing and rate limit  
Support up to 31 WLANs with own unique SSID  
unique BSSID for each SSID WLAN  
SSID to VLAN mapping  
Hidden Broadcast SSID for each WLAN

#### Bridging and VLAN

IEEE 802.1d spanning tree  
Support up to 512 MAC learning addresses  
Support 802.1Q VLAN ids  
Support up to 2048 MAC address filter  
Secured Wireless LAN user isolation

### Authentication

Pre-Shared key authentication  
MAC authentication  
IEEE 802.1x EAP support  
EAP-MD5, EAP-PEAP, EAP-TLS and EAP-TTLS  
RADIUS authentication and accounting  
Web redirection authentication (HTTP/HTTPS)  
Failover on Primary and Secondary RADIUS server  
Dynamic VLAN assignment authorization

### Security

WEP security key : 64/128 bits  
Dynamic key assignment with 802.1x authentication  
WPA and TKIP  
WPA2 and 802.11i (AES and CCMP)  
Rogue AP detection  
Access control list (ACL)

### Network Management

Web-based GUI manager  
CLI through telnet, SSH and console port  
SNMP v2c:  
MIB II, SNMP traps and Intelicis MIB  
System event log  
Multiple levels of administration privilege  
Support FTP and TFTP upgrade  
Flash image disaster recovery

### Hardware

Rugged Metal and plenum-rated case housing  
RJ45 Ethernet Port  
Dual N-Type antenna connectors

### Physical and Operating Environment

Dimensions: 280mm(w) x 280mm(h) x 75mm(d)  
Weight: 10 lb  
Operating temperature: -30°C to 70°C  
Storage temperature: -40°C to 70°C  
Operating humidity: 10% to 95% non-condensing  
Storage humidity: 10% to 95% non-condensing

### Power Requirement

Input: 36V DC to 57V DC, 10W Max (PoE mode)

### Compliance / Regulatory

FCC Part15 Class B