

# NDC NWE2680 MIMO Access Point

NDC MIMO APs are the wireless solution which is transforming Wi-Fi into a networking solution with the range and capacity demanded to support voice and other streaming applications. NWE2680 offers a new paradigm in control and management that represents the breakthrough combination of higher performance with greater scalability, reliability and economic ROI. Be suitable for Enterprise applications deploying hundreds of APs as well as small offices deploying several APs.

## Key Features and Benefits

### Compatible with IEEE 802.11a/b/g standards

Fully compatible with all future, current and legacy client station devices.

### Unparalleled Performance

MIMO technology offers an order-of-magnitude increase in capacity. NWE2680 combines MIMO with embedded hardware acceleration to offer line speed WPA 2.0 style AES encryption, resulting in up to 6x range enhancement of secure wireless data at 108Mbps.

### Wireless Backhaul Mode

Creates simultaneous wireless AP and Backhaul to enable all wireless network deployments, while maintaining exceptional throughput performance.

### Automatic Frequency Selection

Multiple AP installations can self-route the wireless backhaul for optimum throughput performance by intelligently selecting the best adjacent AP and correct band to make the connection.

### Enterprise-class Security

WPA and WPA2 with migration to 802.11i, with full AES encryption, 802.1x authentication, and 64/128 Bit WEP support

### Multiple SSID – VLAN support

Up to 16 VLANs may be configured to support 16 unique SSIDs for separated Class-of-Service and security policies by subnet.

### Guest Access Administration

Embedded RADIUS server and client for local or remote authentication, guest access login page, and unique guest security policy definition

### Advanced Quality of Service

Supports packet classification and scheduling based on 802.1p, with TC-ID based priority mapping and 802.11e based hardware support (EDCA and HCCA).

### Web Based Interface

An intuitive administrative screen is accessible with a Web browser and provides comprehensive setup Wizards, policy management, fault monitoring and network diagnostics.

## Embedded Network Management Portal

Each MIMO AP in a wireless network can be assigned as a Portal manager, providing centralized management of up to 20 APs.

## Comprehensive Monitoring and Troubleshooting

Complete support for SNMP, Syslog, configuration file backup and restore, and RF statistical tracking.

## Specifications

<b>Performance</b>	
<b>Data Rates (Mbps)</b>	802.11b: 1, 2, 5.5, 11 Mbps 802.11a and 802.11g: 6, 9, 12, 24, 36, 48, 54 Mbps MIMO modes: 72, 96, and 108 Mbps– per 20MHz channel for both 2.4GHz and 5GHz bands.
<b>Minimum Output Power (dBm)</b>	802.11b: 20 at 11Mbps 802.11g: 17 at 54Mbps 802.11a: 15 at 54Mbps MIMO:15 at 108Mbps
<b>Quality of Service</b>	802.11e support for prioritized and scheduled QoS (EDCA, HCCA) Tagging options – 802.1p (classified), per VLAN, per Station, IP TOS 802.1q and TC-ID priority mapping support
<b>VLAN &amp; SSIDs</b>	Up to 16 Groups (default + 15 assignable) VLANs assignable to unique SSIDs Individual access and security policies per VLAN
<b>Security</b>	
<b>Authentication</b>	802.1x and embedded RADIUS auto keys EAP-TLS, EAP-TTLS, EAP-PEAP Pre-share key (PSK)
<b>Encryption</b>	64 / 128bit WEP WPA2 / AES-CCM (802.11i) WPA / TKIP
<b>Rogue Management</b>	2.4 and 5GHz channel scanning and detection Log and notify unknown AP sources Classify options – rogue, neighbor, known
<b>Zone Privacy</b>	Blocks client to client discovery within a specified VLAN – for public Hotspots
<b>Radio Properties</b>	
<b>Chipset</b>	Airgo Networks True MIMO™ Multi-mode
<b>Freq. Range (MHz)</b>	2400-2484; 5150-5250; 5250-5350; 5725-5850
<b>Modulation</b>	802.11b: DSSS (BPSK, DQSK, CCK) 802.11a, 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM)

<b>Wireless Mesh</b>	Supports simultaneous AP and wireless Mesh backhaul links
<b>Management</b>	
<b>Embedded Portal Functions</b>	<b>Management Portal:</b> enables domain management for up to 20 MIMO APs; centralizes monitoring, updating and statistics functions. <b>Security Portal:</b> centralizes access authentication functions including RADIUS.
<b>Remote Management</b>	Integrates with NMS Supports SNMPv2/v3
<b>Administrative Access</b>	Web browser – HTTPS CLI – SSH (via serial port)
<b>Hardware</b>	
<b>Processor</b>	Motorola Power PC8245, 300 MHz
<b>Memory</b>	32 MB SDRAM, 32 MB Flash
<b>Antennas</b>	Omni-directional – tri-band - articulating
<b>Ports</b>	Ethernet – 10/100Base-T (RJ-45) Console - RS-232 serial (DB-9)
<b>Reset button</b>	Dual pin hole with buzzer – default reset
<b>Power over Ethernet</b>	Supported – 802.3af compliant (48V DC)
<b>Indicators (LED)</b>	Activity (per radio) Ethernet (link/activity) Status (active / rebooting)
<b>Physical / Environmental</b>	
<b>Enclosure</b>	Metal case
<b>Dimensions and Weight</b>	9.69 x 5.9 x 1.5 in (24.5 x 15 x 3.5 cm) 31bs (1.4kg)
<b>Temperature &amp; Humidity</b>	0 to +60 degrees C; <95% RH non-condensing
<b>Regulatory</b>	FCC Part 15