

# Simplify Wi-Fi: Mobility Express Solution

## With Cisco Digital Network Architecture



### Automation and Agility

Easy, efficient and deployed in minutes! Advanced controller features to optimize network performance plus best practice settings configured 'out of the box'



### Lower Risk and Compliance

Network compliance  
Business continuance



### Insights & Analytics

Gain actionable insights to aid business decisions with AP management, application and client presence information



### Investment Protection

Simple and easy to expand as number or size of sites grows beyond 100 APs

### Must-see videos

#### Why Wireless?

<http://cs.co/9003BYTtD>



#### Cisco Mobility Express

<http://cs.co/9008BYTsK>



#### Cisco 1830 Series AP

<http://cs.co/9002BYTtO>



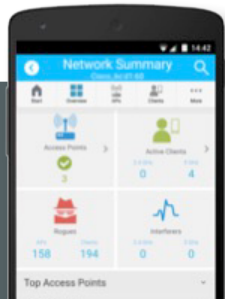
#### Cisco 1850 Series AP

<http://cs.co/9008BYTtj>



### Four 802.11ac Wave 2 Access Points

Features	Cisco Aironet 1815	Cisco Aironet 1830	Cisco Aironet 1850	Cisco Aironet 2800	Cisco Aironet 3800
Number of Radios	2x2	3x3	4x4	4x4	4x4
Spatial Streams	2	2	4	3	3
Dual Radio	Yes	Yes	Yes	Yes	Yes
Max Data Rate (5GHz)	867 Mbps	870 Mbps	1.7 Gbps	5.2 Gbps	5.2 Gbps
Max Data Rate (5GHz + 2.4GHz)	1 Gbps	1.17 Gbps	2.22 Gbps	2.817 Gbps	2.817 Gbps
AC channel width	2.4GHz: 20MHz, 5GHz: 20/40/80MHz	80MHz with dynamic bandwidth selection (DBS)	80MHz with dynamic bandwidth selection (DBS)	160MHz with dynamic bandwidth selection (DBS)	160MHz with dynamic bandwidth selection (DBS)
MU-MIMO - For 802.11ac Wave 2 Devices	Yes	2 Spatial Streams	3 Spatial Streams	3 Spatial Streams	3 Spatial Streams
Gigabit Ethernet Ports (GbE)	1	1	2	2	1x Gbe & 1x mGig (1, 2.5, and 5Gbps)
Universal Serial Bus (USB)	No	1	1	1	1
Mobility Express Deployment Mode Support	Yes	Yes	Yes	Yes	Yes
Centralized Deployment Mode Support	Yes	Yes	Yes	Yes	Yes
FlexConnect Deployment Mode Support	Yes	Yes	Yes	Yes	Yes
Converged Access Deployment Mode Support	No	Future	Future	Yes	Yes
Spectrum Analysis	*Future SW availability	Future	Future	Yes	Yes
Internal Antenna Models Available	Yes	Yes	Yes	Yes	Yes
External Antenna Models Available	No	No	Yes	Yes	Yes
US List Price (\$US)	\$495	\$695	\$995	\$1295-1395	\$1650-1750



### Cisco Wireless App

Configure Wireless, View Key Performance Indicators & Analytics



## Mobility Express Solution

**802.11ac Wave 2**

No controller appliance needed as Mobility Express supports APs have on-board controller functionality. Cost-efficient and highly functional.

# Overview of Access Points



Features	Cisco Aironet 1815	Cisco Aironet 1830	Cisco Aironet 1850	Cisco Aironet 2800	Cisco Aironet 3800	Aruba AP-325	Aruba AP-330	Ruckus R710
Standard	802.11ac Wave2	802.11ac Wave2	802.11ac Wave2	802.11ac Wave2	802.11ac Wave2	802.11ac Wave2	802.11ac Wave2	802.11ac Wave2
SU-MIMO	2x2: 2	3x3: 2	4x4: 4	4x4: 3	4x4: 3	4x4: 4	4x4: 4	4x4: 4
MU-MIMO	2x2: 2	3x3: 2	4x4: 3	4x4: 3	4x4: 3	4x4: 3	4x4: 2SS	4x4: 3
AC channel width	2.4GHz: 20MHz, 5GHz: 20/40/80MHz	80MHz with dynamic bandwidth selection (DBS)	80MHz with dynamic bandwidth selection (DBS)	160MHz with dynamic bandwidth selection (DBS)	160MHz with dynamic bandwidth selection (DBS)	80MHz	80MHz/160MHz up to 2x2:2	80MHz
Number of Radios	Dual (2.4Ghz and 5.0Ghz)	1x 2.4GHz / 1 x 5GHz	1x 2.4GHz / 1 x 5GHz	1 x XOR (FRA, 2.4 and 5GHz capable) / 1 x 5GHz	1 x XOR (FRA, 2.4 and 5GHz capable) / 1 x 5GHz	1x 2.4GHz / 1 x 5GHz	1x 2.4GHz / 1 x 5GHz	1x 2.4GHz / 1 x 5GHz
Speed	Up to 1 Gbps	Up to 870 Mbps	Up to 1.733Gbps	Up to 5.2 Gbps	Up to 5.2 Gbps	Up to 1.733Gbps	Up to 1.733Gbps	Up to 1.733Gbps
Antenna	Internal	Internal	Internal/External	Internal/External	Internal/External	Internal/External	Internal/External	Internal
Ethernet Ports	1 x 10/100/1000 BASE-T	1x 10/100/1000	2x 10/100/1000	2x 10/100/1000	1x 10/100/1000 + 1x mGig (1, 2.5, and 5Gbps)	2x 10/100/1000	1x 10/100/1000, SmartRate Up to 2.5Gbps	2x 10/100/1000
Spectrum Intelligence	*Future SW availability	Spectrum Analysis	Spectrum Analysis	HDX CleanAir 160	HDX CleanAir 160	Spectrum Analysis	Spectrum Analysis	Spectrum Analysis
Beam Forming	Transmit Beam Forming (Tx BF)	Transmit Beamforming	Transmit Beamforming	ClientLink 4.0	ClientLink 4.0	Transmit Beamforming	Transmit Beamforming	BeamFlex+
Roaming	Yes	Optimized Roaming/ CCX/ 802.11r	Optimized Roaming/ CCX/ 802.11r	Optimized Roaming/ CCX/ 802.11r	Optimized Roaming/ CCX/ 802.11r	ClientMatch	ClientMatch	-
Management	Onboard controller, FlexConnect and Central Managed	Onboard controller, FlexConnect, Converged & Central Managed	Onboard controller, FlexConnect, Converged & Central Managed	Onboard controller version 8.3 and higher, FlexConnect, Converged & Central Managed	Onboard controller version 8.3 and higher, FlexConnect, Converged & Central Managed	Aruba Instant / Controller	Aruba Instant / Controller	Central Managed
US List Price (\$US)	\$495	\$695	\$995	\$1295-1395	\$1650-1750	\$1395	\$1695	\$1295

Key differentiator	<ul style="list-style-type: none"> <li>• Lowest priced Wave 2 Access Point in the market</li> </ul>	<ul style="list-style-type: none"> <li>• Perfect for organizations with more than 1000 people</li> </ul>	<ul style="list-style-type: none"> <li>• Same AP as competitor but cheaper</li> </ul>	<ul style="list-style-type: none"> <li>• x/or dual-radio Flexible Radio Assignment (FRA)*</li> <li>• High Density eXperience (HDX) features</li> </ul>	<ul style="list-style-type: none"> <li>• x/or dual-radio Flexible Radio Assignment (FRA)</li> <li>• High Density eXperience (HDX) features</li> <li>• mGig</li> <li>• Modularity</li> </ul>
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\*\*Denotes feature availability post-FCS.

## \*Flexible Radio Assignment

 5GHz Serving		 2.4GHz Serving	 5GHz Serving		 5GHz Serving	 5GHz Serving	 Wireless Security Monitor		 5GHz Serving		 Proactively monitors network performance	 5GHz Serving		 Enhanced Location
<ul style="list-style-type: none"> <li>• Default operating mode</li> <li>• Serving clients on both 2.4GHz and 5GHz</li> </ul>			<ul style="list-style-type: none"> <li>• Dual 5GHz Support, both radios serving clients on 5GHz</li> <li>• Maximum over-the-air data rate up to 5.2Gbps</li> </ul>		<ul style="list-style-type: none"> <li>• Wireless Security Monitoring</li> <li>• Scans both 2.4GHz and 5GHz for security threats</li> <li>• Serving clients of 5GHz</li> </ul>			<ul style="list-style-type: none"> <li>• Proactively monitors network performance</li> <li>• Serving clients of 5GHz</li> </ul>			<ul style="list-style-type: none"> <li>• Enhanced Location**</li> <li>• Improves client location accuracy</li> <li>• Serving clients of 5GHz</li> </ul>			