Xirrus XI Series Wireless APs

DATASHEET

Xirrus Wireless Access Points

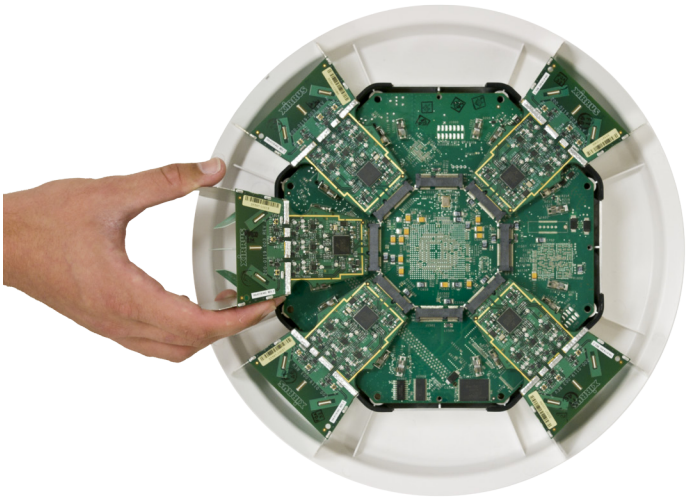
The Xirrus XI Series 802.11n Wireless Access Points are modular devices configured into Xirrus XR series Arrays that provide best-in-class connectivity supporting the growing demands of smartphones, tablets and laptops. The XI APs enable organizations to meet the performance needs of their users and the RF management needs of the business. Available in 300Mbps as well as 450Mbps models the Xirrus XI series APs offer superior coverage, bandwidth and reliability.

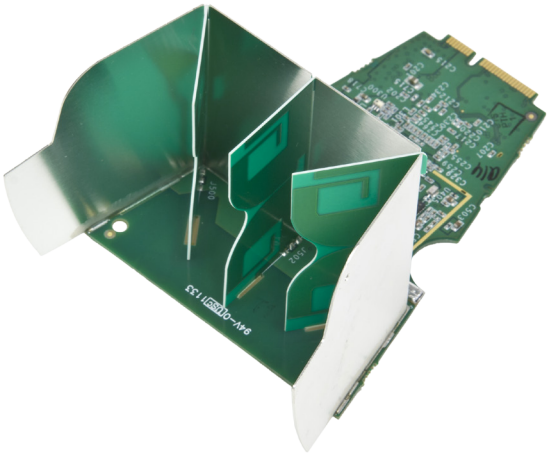
At a glance

- Access Point includes up to 3 high gain directional antennas focusing the RF signal for maximum range & reliability
- Modular design fitting Xirrus XR Series Arrays enables future in-place upgrades and network designs that aim RF coverage where needed
- Available in 300Mbps (2X2 MIMO) or 450Mbps (3X3 MIMO) models
- Configurable to operate at 2.4GHz or 5GHz bands to support a wide range of wireless devices
- Multiple operational modes enable the use of an AP in any position of Array as threat detection/packet capture/ spectrum analyzer

XIRRUS XI SERIES MODULAR WIRELESS ACCESS POINTS

Field swappable APs provide maximum flexibility for upgrades





High gain directional antennas

Each Xirrus AP maximizes performance and reliability by utilizing specialized high gain directional antennas that aim coverage and focus the energy of each RF signal. The antennas have a special integrated metallic reflector for isolation between APs allowing for directional beam patterns. This unique antenna configuration enables the AP to minimize correlation between channels and automatically compensate for RF disturbances within the coverage area. The space diversity created by the Xirrus antenna design maximizes the performance and range of RF coverage.

Flexible RF management

Each Access Point is software configurable to help the network engineer design and implement an efficient and reliable wireless network. Configurable parameters of the AP include:

- Band selection 2.4GHz or 5GHz
- Channel selection (automatic or manual)
- Transmit power level (automatic or manual)
- Receive sensitivity (automatic or manual)
- Data rates to control maximum connection speed
- Fixed mode option to define wireless protocol by channel for individual or multiple APs
- Traffic shaping controls for packet per second (PPS) or bits per second (BPS) to enable per user traffic or per SSID

The configuration settings provide granular control for the flexible mangement of the RF signal of the AP.

XIRRUS®
High Performance Wireless Networks

Multiple operational modes

Xirrus XI Series APs have the ability to switch between User mode and Monitor mode providing deployment flexibility within each Xirrus Array. Any AP in any position within the Array can be switched between modes. In User mode the AP provides device connectivity to the wireless network. In Monitor mode the AP can become a dedicated threat sensor capable of spectrum analysis, packet capture, intrusion detection and intrusion prevention.

Modular APs and the Xirrus XR series Arrays

The XI Series AP modules fit into the Xirrus XR Series Array chassis including the 2-AP XR-1000 all the way up to the 16-AP XR-6000 series. Using the same AP models across all XR Series Arrays provides consistency in capabilities, network services and management regardless of device. The modular APs along with the multi-slot design of the XR Series Arrays enables customized RF coverage patterns as well as the flexibility to add or upgrade radio technology in the future.

Xirrus XI series wireless AP specifications

FEATURE	SPECIFICATION
Physical dimensions	Height: 2.25" Width: 3.0" Depth: 4.5" Weight: 1.1 oz
RF coverage	120 degree coverage in 2.4GHz, 90 degree coverage in 5GHz
Radio gain	3dBi gain in 2.4GHz, 6dBi gain in 5GHz
Interference rejection	50dB
Backplane	2.5Gbps PCIe bus connection
RF Management	Dynamic channel configuration Dynamic cell size configuration Transmit power & receive sensitivity configuration Radio Assurance for radio self test and healing
RF Monitor	In-band per IAP Spectrum Analysis Threat assessment and mitigation Wired and Wireless Packet Captures (including all 802.11 headers)
Channel support 2.4GHz*	1 2 3 4 5 6 7 8 9 10 11 12 13 14
Channel support 5GHz*	U-NII-1 Non-DFS Channels 36 40 44 48 U-NII-1 DFS Channels 52 56 60 64 U-NII-2 DFS Channels 100 104 108 112 116 132 136 140 U-NII-3 Non-DFS Channels 149 153 157 161 165
Xirrus Wireless Array compatibility	XR-1000 Series XR-2000 Series XR-4000 Series XR-6000 Series

*All channel selections are based upon country code selections

Ordering information

PART NUMBER	DESCRIPTION
XI-N300	Xirrus Wireless AP 2X2 MIMO Maxiumum 300Mbps
XI-N450	Xirrus Wireless AP 3X3 MIMO Maximum 450Mbps

Support & maintenance

Xirrus is committed to the success of our customers and provides warranties and support options to best fit your needs. For further information on the Xirrus hardware warranties, software support and premium support offerings visit:

http://www.xirrus.com/support/warranty.php

About Xirrus

To organizations who depend on wireless access to transform their business, Xirrus is the wireless network solution provider that provides the world's most powerful, scalable, and trusted solutions. Through product invention and system design, commitment to customer success, and the industry's best price performance, Xirrus gives you confidence that your wireless network performs under even the most demanding circumstances. Headquartered in Thousand Oaks, CA, Xirrus is a privately held company and designs and manufactures its family of products in the USA

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