ADTRAN®

Data Sheet

ADTRAN

3040/3045

Quad-Radio 802.11ac Wave 2 Access Point

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Low TCO	Zero-Touch	Gigabit	Wi-Fi	Open	Enabled

Benefits

- Offers 100 percent Cloud-Managed Wi-Fi without required subscriptions
- Provides integrated wireless intrusion detection system to proactively identify rogue access points and wireless attacks
- Greatly improves network performance with flexible concurrent dual-band Wi-Fi
- Supports zero-touch AP provisioning and zero IT setup in five minutes or less
- Leverages machine learning-powered self-optimizing and healing technology
- Supports context-aware security and firewall for the highest level of security at the edge
- Offers seamless feature and service upgrades to match your unique needs and budget
- Supports WMM/802.11e and QoS for enterprise-class voice over Wi-Fi
- Scale from a handful of APs to thousands across multiple locations and customers

Overview

ADTRAN's wireless portfolio includes a family of 802.11n, 802.11ac wave 1 and 802.11ac wave 2 high-performance Access Points (APs) that are a perfect fit for service provider and enterprise deployments of all sizes. This includes K-12 and higher education campuses, corporate, public and sports/entertainment venues, hospitality, retail including malls, coffee shops, bars, restaurants and manufacturing, healthcare facilities, airports and train stations who are looking to move their organizations to a pervasive mobility environment. ADTRAN APs are completely plug-and-play requiring no manual configuration and deliver optimal performance. Whether you want to add wireless to your office or deploy it across an entire campus, ADTRAN APs are designed to meet your needs.

Cost Effective, High-Performance, Reliable Connectivity

The ADTRAN 3040 and 3045 indoor APs offer carrier-class performance with four radios including concurrent 5 and 2.4 GHz radios with four transmit and four receive streams providing data rates up to 1.733 Gbps on the 5 GHz radio and 800 Mbps on the 2.4 GHz radio for a total of 2.5 Gbps, a dedicated dual band scanning/security radio for DynamicRF Radio Resource Management (RRM) and Wireless Intrusion Detection (WIDS), and an integrated Bluetooth Low Energy (BLE) radio.

The ADTRAN 3040 AP includes a total of 10 internal modular high-efficiency Planar Inverted-F omnidirectional antennas (PIFA) - four internal antennas with 6 dBi peak gain for the 5 GHz radio, four internal antennas with 4 dBi peak gain for the 2.4 GHz radio, one internal antenna with 3/5 dBi peak gain for the dual band scanning/security radio (2.4/5 GHz respectively) and one internal antenna with 4 dBi peak gain for the BLE radio. The ADTRAN 2020 AP is fully functional with the power delivered by a single-port 802.3af PoE solution.

ADTRAN 3040/3045

The ADTRAN 3045 AP includes a total of eight RP-SMA connectors for external antennas and two internal modular high-efficiency PIFA omnidirectional antennas - Four RP-SMA connectors for external antennas for the 5 GHz radio, four RP-SMA connectors for external antennas for the 2.4 GHz radio, one internal antenna with 3/5 dBi peak gain for the dual band scanning/security radio (2.4/5 GHz respectively) and one internal antenna with 4 dBi peak gain for the BLE radio.

The Multi-gigabit Ethernet uplink port scales up to 2.5 Gbps but is also backwards compatible to 100/1000Base-T. This combined with an additional Gigabit Ethernet uplink port allows enterprises to leverage their existing wired Infrastructure today and multi-gigabit in the future.

The ADTRAN 3040 and 3045 APs provide the highest performance and reliable coverage in ultra-high density wireless environments such as indoor arenas, conference centers, libraries, and other high-traffic areas. The ADTRAN 3040 Series of APs supports the newer generation of laptops with four stream radio support, and offer higher receive sensitivity on both the 2.4 and 5 GHz radios to compensate for Bring Your Own Device (BYOD) and Internet of Things (IoT) devices that have a fraction of the transmit power of traditional laptops.

ADTRAN 3040 and 3045 APs are fully functional with the power delivered by a single-port 802.3at PoE+ solution.

Flexible, Cloud-Managed Options

ADTRAN Enterprise-Class APs offer simple, robust, adaptable enterprise Wi-Fi connectivity and security without compromise. With ADTRAN Express, every AP is a starting point – enabling you to think big and start small. Leverage the power and simplicity of 100 percent cloud-managed Wi-Fi, right sized, without required subscriptions. Combine that with high-performance, enterprise-class APs available at market disruptive pricing and machine-learning powered self-organizing and healing technology – allowing you to get the network up and running quickly, keep it running smoothly and ensuring the best possible quality of experience.

Scale from a handful of APs to thousands across multiple locations and customers. Seamlessly upgrade to elevate the experience with Enhanced Support or upgrade to ADTRAN Elite including advanced features and unparalleled flexibility in deployments options. With ADTRAN enterprise-class Wi-Fi solutions, you can create an experience to best fit the unique needs and budget of your organization.

ADTRAN Express

100 Percent Cloud-Managed IT

- No required subscriptions or licenses
- No installation or management of on-premises controller or software

Powerful Enterprise-Class APs

- Available at market disruptive pricing 75% lower than typical enterprise-class APs and licenses

Deployments Made Simple

- Zero-Touch AP Provisioning
  - APs automatically discover the cloud, download firmware, and configuration.
- Zero-IT Setup
  - Enjoy a fully functional employee and guest network in five minutes or less with just a few wizard driven key strokes and mouse clicks
- Machine learning-powered Wi-Fi that just works
  - Self-optimizing and healing technology
  - DynamicRF - Maximizes performance and adapts to interference by learning about the RF spectrum and automatically adjusting optimal radio settings
  - DynamicSteering - Automatically steers clients to the best AP or radio within an AP to provide the best possible quality of experience, provides load balancing and prevents "sticky Wi-Fi clients"
  - DynamicMulticast - Prevents multicast traffic typically sent at low data rates from impacting overall performance by learning about traffic patterns and automatically adjusting optimal multicast settings
  - Unmatched Visibility and Insight
- Web-based HTML 5 admin interface enables centralized management of the WLAN from any device, anywhere in the world.
- Multi-tenanted tiered admin access allows support of multiple customers or sites, on a single instance and provides administrators with permissions to just those sites and the resources within them
- Customizable dashboard branding (Logo/Colors)
- Real-time and historical reporting and analytics dashboards
- Complete RESTful web services API for automation, orchestration and analytics

A Right-Sized Feature Set

- Focused on robust enterprise connectivity and security
- Seamless upgrades to ADTRAN Elite features and flexible deployment options

Context-Aware Security and Firewall

- Role-Based Access Control with L7 Device Fingerprinting allows you to define group policies based on multiple contexts including user credentials, device type, ownership of device (company owned or BYOD), location and schedule

Seamless Layer 2 Mobility

Every AP is a Starting Point

- Scale from a handful of APs to thousands across multiple locations and customers

Remote Site Survivability

- APs continue to function if the connection to the ADTRAN cloud goes down

Interactive Support Community

- Optional upgrades to enhanced support and extended warranty with advanced hardware replacement

ADTRAN Elite

Everything in Express +

- Includes everything in ADTRAN Express plus more

Advanced Features

- Advanced guest manager
- Advanced authentication methods
- Wireless Intrusion Detection (W-IDS)
- Heatmaps for RF planning and rogue AP location tracking
- Seamless Layer 3 mobility

Flexible Deployment Options

- ADTRAN cloud or yours

Enhanced Support and Extended Warranty

- Cloud and support SLAs
- Advanced hardware replacement

ADTRAN 3040/3045

Product Specifications

Interfaces

- One multi-gigabit Ethernet auto sensing 100/1000/2500Base-T, one auto sensing 10/100/1000Base-T Ethernet, Serial Console Port (RJ-45 Connector), USB 2.0

Antennas

Bluesocket 3040

- 10 internal modular high efficiency PIFA omnidirectional antennas - four internal antennas with 6 dBi peak gain for the 5 GHz radio, four internal antennas with 4 dBi peak gain for the 2.4 GHz radio, one internal antenna with 3/5 dBi peak gain for the dual band scanning/ security radio (2.4/5 GHz respectively) and one internal antenna with 4 dBi peak gain for the BLE radio.

Bluesocket 3045

- 8 RP-SMA connectors for external antennas and two internal modular high efficiency PIFA omnidirectional antennas - Four RP-SMA connectors for external antennas for the 5 GHz radio, four RP-SMA connectors for external antennas for the 2.4 GHz radio, one internal antenna with 3/5 dBi peak gain for the dual band scanning/security radio (2.4/5 GHz respectively) and one internal antenna with 4 dBi peak gain for the BLE radio.

Radios

- Concurrent 802.11a/n/ac wave 2 and 802.11b/g/n
- Dedicated dual band scanning/security radio for DynamicRF Radio Resource Management (RRM) and Wireless Intrusion Detection (WIDS)
- Integrated Bluetooth Low Energy (BLE) radio
- DynamicRF (Radio Resource Management) with dedicated scanning radiofor Automatic Channel, TX Power andNeighbor Discovery
- DynamicSteering (Band/client steering, load balancing and sticky client prevention technology) with 802.11k/v support
- Configurable Maximum Associated Clients per Radio
- Multicast/Broadcast to Unicast Conversion
- A-MPDU and A-MSDU Frame Aggregation
- HT20, HT40 (High Throughput) and VHT80, VHT80+80, VHT160 (Very High Throughput)
- *Max Aggregate TX Power
  - 2.4Ghz: 26 dBm/400 mW
  - 5Ghz: 25 dBm/316 mW

Certifications

- Wi-Fi 802.11a/b/g/n/ac Certification

Mobility Services

- Eight SSIDs Per Radio
- 802.1Q VLAN Support
- Support for Apple Bonjour-based Services (Airprint, Airplay), Apple CNA, and Microsoft NCSI
- Wireless Client Load Balancing
- Secure Fast Roaming with Opportunistic Key Caching (OKC)
- Seamless Layer 2 and Layer 3 Roaming
- SoftGRE Tunneling
- High Availability

QoS for Voice, Data, and Video

- Smart Bandwidth Management (Incoming, Outgoing)
- WMM (802.11e)
- 802.1p or Differentiated Service Code Point (DSCP)
- WMM Power Save (U-APSD)

Security

- 802.1X Port-based Authentication
- Open System (WEP-64/128)
- Shared System (WEP-64/128)
- WPA/WPA2-Personal
- WPA/WPA2-Enterprise
- EAP-TTLS
- EAP-PEAP
- EAP-FAST
- EAP-TLS
- EAP-SIM
- EAP-AKA

Environment

- Operating: 32° F to 113° F (0° C to 45° C)
- Storage: -40° F to 158° F (-40° C to 70° C)
- Humidity (non-condensing): 5% to 90% Typical

Physical

Bluesocket 3040

- Dimensions: 8.3 in. x 8.3 in. x 1.5 in. (W x D x H) (210 mm x 210 mm x 35 mm)
- Weight: 1.5lbs (0.7 kg)

Bluesocket 3045

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Power

- 802.3at Compliant Power over Ethernet
- External 12V DC Power Adapter (Optional)

Mounting

- Wall/Ceiling/T-bar Mount Kit Included
- Plenum Rated (BSAP 3045)
- Anti-Theft: Compatible with Kensington-style Locks

Agency Approvals

Electrical/Safety Compliance

- UL 1950
- CSA 22.2
- IEC 60950
- EN 60950

Radio Approvals

- FCC Part 15.247
- RSS-210 (Canada)
- EN 300.328 (Europe)
- AS/NZS 4771 (Australia & New Zealand)
- NCC (Taiwan) and IDA (Singapore)
- EMI and Susceptibility (Class A)
- FCC Part 15.107 and 15.109
- ICES-003 (Canada)
- EN 301.489-1 and -17 (Europe)
- AS/NZS 3548

Warranty

- Limited Lifetime Warranty

*Aggregate of chains. Max TX power may be limited by local regulatory domains (country) and band edge requirements.

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Ordering Information

1. Choose Your Access Point

Equipment	Part No.
ADTRAN BSAP 3040: 802.11a/b/g/n/ac wave 2, 4x4:4, internal MU-MIMO antennas	1700965F1
ADTRAN BSAP 3045: 802.11a/b/g/n/ac wave 2, 4x4:4, external RP-SMA connectors	1700966F1

2. Choose Your Accessories

Equipment	Part No.
Single Pack	
802.3af Compliant PoE Injector for ADTRAN BSAP 3040/3045	1700926F1
AC/DC Power Adapter for ADTRAN BSAP 3040	1700963F1
Omnidirectional Antenna Bundle with 5 dBi gain for ADTRAN BSAP 3045	1700964F1

3. Upgrade to Enhanced Support/Extended Warranty

Warranty Option	Part No.
Phone Support	
ProCare 1-Year Basic Maintenance for one Access Point for use with Elite On-Premises Perpetual License or upgrading Express Cloud from community support.	1100AMWIF1M1T1
ProCare 3-Year Basic Maintenance for one Access Point for use with Elite On-Premises Perpetual License or upgrading Express Cloud from community support.	1100AMWIF1M1T3
Phone Support and Advanced Hardware Replacement	
ProCare 1-Year NBD Remote Maintenance for one Access Point for use with Elite On-Premises Perpetual License or upgrading Express Cloud from community support. Includes support and next-business day advanced hardware replacement.	1100AMWIF1M2T1
ProCare 3-Year NBD Remote Maintenance for one Access Point for use with Elite On-Premises Perpetual License or upgrading Express Cloud from community support. Includes support and next-business day advanced hardware replacement.	1100AMWIF1M2T3

4. Upgrade to to Elite

Elite Option	Part No.
Elite Cloud	
Elite Cloud 1-Year Subscription for one Access Point. Includes: Elite Cloud, ProCare support, software/firmware updates, next business day advanced hardware replacement.	1100MSPH200112
Elite Cloud 3-Year Subscription for one Access Point. Includes: Elite Cloud, ProCare support, software/firmware updates, next business day advanced hardware replacement.	1100MSPH200136
Elite Cloud 5-Year Subscription for one Access Point. Includes: Elite Cloud, ProCare support, software/firmware updates, next business day advanced hardware replacement.	1100MSPH200160
Elite On-Premises (Requires ProCare Support from Step 2 above)	
Elite On-Premises Perpetual License for one Access Point. Requires ProCare support.	1951901G1

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