EXTEND YOUR EDGE.
Accelerate Business Beyond The Office With Aruba’s Ruggedized Solution
Intelligent edge extends beyond carpeted spaces

Opportunities to improve productivity, automation, and monitoring rely on network connectivity beyond the office. Does your business?

Why extend your network beyond climate-controlled spaces?

- Improved employee productivity across all workplaces.
- Better customer experience in outdoor spaces.
- Better visibility and safety of people.
- Improved monitoring, automation, and control of network devices.
- Enhanced facilities and asset monitoring.
IT challenges extend to harsh environments

Even greater security risks.

80% of organizations found IoT devices that they did not install or secure\(^1\)

IoT devices like security cameras, PoE lighting, and sensors bring safety and OT benefits, but they increase security risks because they are often deployed beyond controlled office spaces.

More management complexity with siloed tools.

75% of organizations use 4 or more network management tools\(^2\)

Purpose-built ruggedized products designed to address tough environments weren’t designed with IT in mind—lacking the security, management tools, and visibility that IT teams need for operational efficiency.

And more manual tasks leading to increased risk.

70% of network configuration is done manually\(^3\)

Traditional network equipment designed to operate in extreme temperatures, outdoors, or in hazardous environments often has limited management capabilities, requiring highly manual operations with on-site IT.

\(^1\) Gartner, “Segmentation or Isolation: Implementing Best Practices for Connecting ‘All’ Devices,” September 2019

\(^2\) Network Management Megatrends 2018: Exploring NetSecOps Convergence, Network Automation, and Cloud Networking

\(^3\) Gartner, “5 Network Cost Optimization Opportunities,” June 2019

How a modern ruggedized solution can help.

A ruggedized network keeps devices and users connected and productive in outdoor, harsh, or hazardous environments without compromising security, performance, or operational simplicity.
Extend your edge with Aruba's ruggedized solution

**Experience better control and visibility with unified management**
Gain context, visibility, and control over all domains from a single pane of glass. Aruba Central simplifies and streamlines IT operations for WLAN, LAN, and SD-WAN across campus, branch, remote worker, and data center locations.

**Access a full portfolio of Wi-Fi 6 outdoor and ruggedized APs**
Provide seamless connectivity to IT, OT, and IoT devices and users in carpeted, unconditioned, and hazardous locations, indoors and out with Aruba Wi-Fi certified outdoor APs—all backed by a limited lifetime warranty. Aruba's Wi-Fi 6 portfolio includes Bluetooth Low Energy and Zigbee radios and Wi-Fi mesh backhaul to adjacent buildings for greater reliability and performance.

**Rely on high performance ruggedized Ethernet LAN switching**
Designed to handle wide temperature ranges and harsh conditions, Aruba's ruggedized access switches deliver secure enterprise class connectivity and feature DIN rail and rack mounting, high-speed uplinks, and always-on 30W and 60W PoE for power-hungry devices.

**Automate security for IoT and users**
Combine policy management with real-time automation to consistently enforce security policies across wired, wireless, and WAN networks for users and devices, including IoT. FIPS 140-2 and Common Criteria validated solutions are ready for defense and government applications.
### Meeting the needs of unique industry use cases

Smart, secure, and reliable connectivity boosts up-time and productivity

<table>
<thead>
<tr>
<th>Application</th>
<th>Challenges Aruba Solves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing</td>
<td>Electrical noise, emissions, and immunity</td>
</tr>
<tr>
<td>Power Substation</td>
<td>Specialized Communication networks</td>
</tr>
<tr>
<td>Transportation</td>
<td>Shock, vibration, power interruptions</td>
</tr>
<tr>
<td>Traffic Control Systems</td>
<td>Specialized traffic control networks</td>
</tr>
<tr>
<td>Refrigerated Warehouses</td>
<td>Low temperature, humidity</td>
</tr>
<tr>
<td>Smart Cities</td>
<td>High and low temperatures and humidity</td>
</tr>
<tr>
<td>Ships</td>
<td>Small mounting footprints, power surges</td>
</tr>
<tr>
<td>Video Surveillance</td>
<td>Camera power (PoE), wide temperature operation</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Voltage dips and ripples, remote management</td>
</tr>
<tr>
<td>Campuses</td>
<td>Compatability with existing network managment</td>
</tr>
</tbody>
</table>
Purpose-built, high-performance outdoor and ruggedized APs

Ruggedized outdoor APs are designed for a broad range of surface, subsurface, and offshore applications.

Wi-Fi 6 certification ensures interoperability and conformity to the highest standards at longer distances outdoors.

IoT-ready to simplify deploying and managing IoT location services, asset-tracking services, security solutions, and IoT sensors with Bluetooth 5 and 802.15.4/Zigbee radios.

Aruba AirSlice delivers SLA-grade application assurance to prioritize business-critical traffic.

Enhanced security with Dynamic Segmentation for role-based policy enforcement and WPA3 and Enhanced Open for guest authentication and encryption.

RF optimization to eliminate sticky clients, and ensure reliable coverage.

Point-to-Point and Point-to-Multipoint wireless options provide Wi-Fi mesh capabilities to help extend coverage to areas without infrastructure.

Peace of mind with Limited Lifetime Warranty.

Simple to install and ready to support IT, OT, and IoT applications in unconditioned and hazardous environments of any size, even oil rigs or industrial freezers.
**Wi-Fi designed to handle the toughest hazardous environments**

**Wi-Fi 6 for hazardous location environments**
Handles multiple clients and drives efficiency with OFDMA and Target Wake Time to maximize battery life

**Hazardous location certifications**
Zone 2 certified for typical hazardous locations with optional enclosures from Anlync, Bartec, Extronics, and R STAHL for Zone 1 areas

**Integrated OT and IoT radios**
Provides a secure backbone for data collection, control, and SCADA applications without the need for hardware gateways

**Flexible deployment options**
Can be deployed with or without gateways and managed by cloud-native Aruba Central, either in the cloud or on-premises

**IoT-ready Bluetooth 5 and 802.15.4/Zigbee support**
Simplifies deploying and managing IoT location services, asset-tracking services, security solutions, and IoT sensors

**Maximum range with support for up to 512 clients per radio**
Purpose built high power integrated radios deliver maximum range and performance for data, voice, video, and telemetry

**Highly secure**
Built on a Zero Trust and SASE framework, the access points include trusted Platform Modules (TPM), support WPA3 and Enhanced Open, and are available with FIPS 140-2 and Common Criteria validation

High-performance Wi-Fi 6 (802.11ax) connectivity for hazardous outdoor environments such as oil fields, mining facilities, and potentially explosive environments.

*Aruba 560EX and 570EX Series APs*
High performance ruggedized Ethernet switches

**Powerful Ethernet Layer 2 switching**
Fanless, compact 12 port DIN rail mount and 24 port 1U rack mount models, both with built-in high speed 1/10GbE uplinks

**High power PoE**
Combination of both Class 6 PoE (60W) and Class 4 PoE (30W) provides flexibility to power variety of IoT, access points, and user devices

**Enhanced security**
Aruba Dynamic Segmentation for role-based policy enforcement, ACLs, and Trusted Platform Module (TPM) to protect your network

**Management flexibility**
Supports a choice of management, including Aruba Central, CLI, switch Web GUI, Aruba NetEdit, and REST APIs

**Robust protection**
Sub-station applications and high tolerances for constant vibrations, shocks, and electronic immunity of railway applications

**Mount where you need it**
DIN rail and rack mount, options permit deployment virtually anywhere – equipment rooms, junction boxes, even wiring chases

**Ready for the heat and cold**
Supports extended operational temperatures from -40°C to +70°C using Aruba’s industrial transceivers

**Peace of mind**
5-year Limited Lifetime warranty and no complex switch software licensing required

Designed to handle extreme temperatures, ruggedized Ethernet access switches provide built-in high-speed 10GbE uplinks and a combination of always-on 30W and 60W PoE for power-hungry IoT devices, making them ideal for parking lots, warehouses, National Electrical Manufacturers Association (NEMA) electrical enclosures, and industrial spaces.
Automated security for IoT, devices, and users

**Flexible architecture that easily scales**
Aruba Dynamic Segmentation is designed to operate at the pace of your growing business. This means it can be deployed in one portion of your network or everywhere—wired, wireless, or WAN—for remote workers, the branch, campus, or cloud.

**Completely automated approach**
Combine policy management with real time automation to make consistent segmentation and enforcement decisions in any location for IT, users, and IoT. Automated policy also minimizes the errors that creep in when configurations are done individually.

**Eliminate VLAN fatigue**
Aruba Policy Enforcement Firewall (PEF) provides access enforcement for Dynamic Segmentation. It is a Layer 7, stateful firewall that runs natively on the Aruba infrastructure. Instead of configuring individual VLANs to control IT access, PEF along with Aruba ClearPass Policy Manager achieves business outcomes in an integrated solution.

**What is Aruba Dynamic Segmentation?**
Dynamic Segmentation simplifies and secures the network by unifying policy enforcement across the wired, wireless, and VPN infrastructure.
Aruba Central
A single pane of glass network management solution

**Intuitive workflows**
Simplify how you provision, deploy, and update your network using zero touch provisioning, GUI-driven configs, and built-in validation checks.

**Network-wide monitoring**
Get detailed insights into the health and performance of networks and what's connected to them, in your building and beyond.

**AI-powered operations**
Preempt issues and continuously optimize networks with automated anomaly detection, dynamic baselines, and peer benchmarks.

**Unified client visibility**
Discover and classify all endpoints connecting to wired and wireless devices, including IoT, using built-in machine learning and dynamic profiling techniques.
Extend your edge today

Leverage the links below to learn more about the Aruba ruggedized solutions and the value they provide!

**Try Aruba Central**
Experience the power of Central—a cloud networking solution with AI-powered insights, workflow automation, and robust security.

**Outdoor and ruggedized access points**
Explore Aruba's Outdoor Access Points that meet the needs of enterprises no matter what size or where they operate—with simple mounting options.

**Ruggedized Ethernet switches**
Discover Aruba's ruggedized, high performance, and secure Ethernet switches designed to connect IoT, access points, and user devices deployed in harsh environments.

**Designing hyper-aware facilities**
Learn about how Aruba technology can help support your industrial IOT networks.

**Aruba Products and Solutions**
Learn about Aruba's portfolio, including Aruba Central, access points, switches, Aruba ClearPass, and more.

**Single point of contact**
Explore Aruba's global support and services designed to help every step of the network lifecycle.

**Network as a Service (NaaS)**
HPE GreenLake for Aruba is a flexible way to consume enterprise network infrastructure that enables businesses to optimize network performance and user experiences through a cloud-like subscription model.