

# N-EDGEX-GATEWAY-B2

Part Code  
EdgeX-Dual-50

## Overview

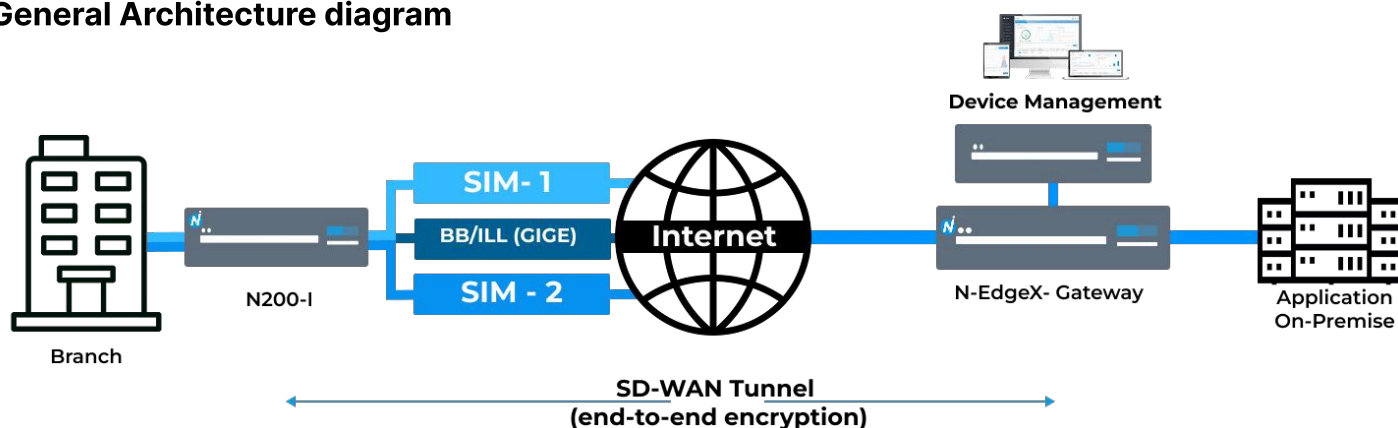
NIRAD N-EDGEX-GATEWAY-B2 is a flexible and scalable Hub Gateway with advanced features, allowing organizations to scale up their branch-to-headquarters and branch-to-cloud connectivity in a more efficient way. NIRAD N-EDGEX-GATEWAY-B2 is a purpose-built rackmount platform designed for hub-class SD-WAN aggregation in enterprise and government data-centre environments.

Designed for modern hybrid and cloud-first architectures, NIRAD N-EDGEX-GATEWAY-B2 enables centralized control and secure aggregation of traffic from multiple branch locations. It supports high-performance SD-WAN capabilities, ensuring optimized application performance, intelligent traffic steering, and reliable connectivity across diverse underlay networks.

With its standards-compliant hardware foundation, NIRAD N-EDGEX-GATEWAY-B2 offers seamless integration with existing rack, power, and cabling infrastructure while delivering the manageability and reliability expected of carrier-class hub deployments. This approach helps enterprises reduce deployment complexity, improve operational agility, and achieve cost-effective scalability while maintaining robust security and high availability across the network.

Overall, NIRAD N-EDGEX-GATEWAY-B2 serves as an ideal solution for enterprises, government deployments, and service providers seeking a future-ready hub platform that delivers scalability, resilience, and operational efficiency for evolving SD-WAN and secure connectivity requirements.

## General Architecture diagram



- SNMP Support V1, V2/V3
- VLAN Configuration (802.1q) & Filtering
- VRRP Support
- DHCP Server Support
- Policy-Based Routing for Internet Breakout
- Support - GRE, IPSec, L2TP Tunnels
- Logical Network Creation
- Various graphs including Data & Bandwidth Utilization etc (Controller)
- Traffic routing - switch and route traffic across the different tunnels.

## SOFTWARE FEATURES

FEATURE	DESCRIPTION
Diagnostic tool	<ul style="list-style-type: none"> <li>• GUI based Diagnostic tool (ping, traceroute etc)</li> </ul>
Local & Remote Management	<ul style="list-style-type: none"> <li>• A Support for NIRAD NMS (Controller)</li> <li>• Configuration visibility and troubleshooting</li> </ul>
Operating System	<ul style="list-style-type: none"> <li>• NiradOS</li> </ul>
Monitoring & Management	<ul style="list-style-type: none"> <li>• WEB UI (local GUI) &amp; Nirad NMS (Centralized Controller)</li> </ul>
Connection Monitoring	<ul style="list-style-type: none"> <li>• Link Inspection/Quality, Check online/offline status from Nirad NMS.</li> <li>• Ping, Traceroute, and Packet Capturing, Link speed test</li> </ul>
IP Allocation	<ul style="list-style-type: none"> <li>• Static and dynamic IP allocation</li> </ul>
Integration	<ul style="list-style-type: none"> <li>• Seamless integration with existing and future-ready environments, including NMS platforms, NGFWs, and other security systems, through REST APIs and third-party tools.</li> <li>• AAA / RADIUS / TACACS+ Support</li> <li>• Receives latest threat and security updates from the Controller powered Nirad Threat Intelligence Platform.</li> </ul>
Policy-Based Routing	<ul style="list-style-type: none"> <li>• IP, Port based, Traffic routing policies (rule).</li> </ul>
Networking Features	<ul style="list-style-type: none"> <li>• Static routing, BGPv4, BGPv6, OSPFv2, OSPFv3, RIP Port Forwarding, Layer 2, 3, and 4 Filtering</li> </ul>
Network Protocols	<ul style="list-style-type: none"> <li>• IPv4, IPv6, PPP, PPPoE, TCP, UDP, DHCP Server, DHCP Relay, RIPv1/v2, HTTP, HTTPS, DNS, Telnet, VLAN, SSH, SNMP v1/v2c/v3, DDNS, VRRP, ARP, QOS, SNMP, Syslog, IPFix.</li> </ul>
Firmware Update	<ul style="list-style-type: none"> <li>• locally and Centrally</li> </ul>
Firewall	<ul style="list-style-type: none"> <li>• Stateful Firewall, Zone-Based L3 Firewall, App-Aware Firewall, IPS/IDS Threat Intelligence</li> <li>• NTP support</li> <li>• DDOS Prevention</li> <li>• Port scan prevention</li> <li>• Web &amp; URL Filtering (Blacklist &amp; Whitelist)</li> </ul>
Route redistribution	<ul style="list-style-type: none"> <li>• Supports Route information sharing across SD-WAN overlay and underlay</li> </ul>
Load balancing	<ul style="list-style-type: none"> <li>• Supports Equal-Cost Multi-Path (ECMP) routing, Packet Based Load Balancing for efficient traffic distribution</li> </ul>
VPN Tunnels	<ul style="list-style-type: none"> <li>• Supports SSL-based VPN, IPsec VPN, PPTP, GRE, L2TP, and OpenVPN.</li> <li>• Encryption methods - DES, 3DES, AES128, 192, 256</li> <li>• Site to Site IPsec VPN- Supports a minimum of 8000 tunnels or more.</li> </ul>
Bridging	<ul style="list-style-type: none"> <li>• Support layer2 bridging</li> </ul>
Firmware Integrity	<ul style="list-style-type: none"> <li>• Tamper-resistant BIOS and secure boot mechanisms to help protect the firmware</li> </ul>
High availability	<ul style="list-style-type: none"> <li>• Support DC-DR Deployment</li> <li>• Support Automatic failover</li> </ul>

## PRODUCT SPECIFICATIONS

FEATURE	DESCRIPTION
CPU	<ul style="list-style-type: none"> <li>• Dual Intel Scalable Multi-core Processor</li> </ul>
Expansion Slot	<ul style="list-style-type: none"> <li>• 2 x PCIe slot</li> </ul>
Memory	<ul style="list-style-type: none"> <li>• 32Gb DDR4 ECC Memory, Expandable upto 2TB</li> </ul>
Storage	<ul style="list-style-type: none"> <li>• ≥ 64Gb SSD</li> </ul>
Ethernet	<ul style="list-style-type: none"> <li>• 6*1G RJ45 Ports</li> <li>• 4*10G/25G SFP Ports (Optional)</li> </ul>
USB	<ul style="list-style-type: none"> <li>• 2+2 USB Type-A</li> </ul>
Management	<ul style="list-style-type: none"> <li>• Dedicated Out-of-Band Management</li> </ul>
Throughput	<ul style="list-style-type: none"> <li>• ≥10 Gbps (Aggregated Throughput)</li> </ul>
Form Factor	<ul style="list-style-type: none"> <li>• 2U Rack Mount, 19" EIA-310 standard</li> </ul>
Power Input	<ul style="list-style-type: none"> <li>• AC input (redundant configuration available)</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>• Operating: 0°C – 40°C</li> </ul>

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