

N-EdgeX-Gateway+NVX86

Part Code
EdgeX-Dual-50

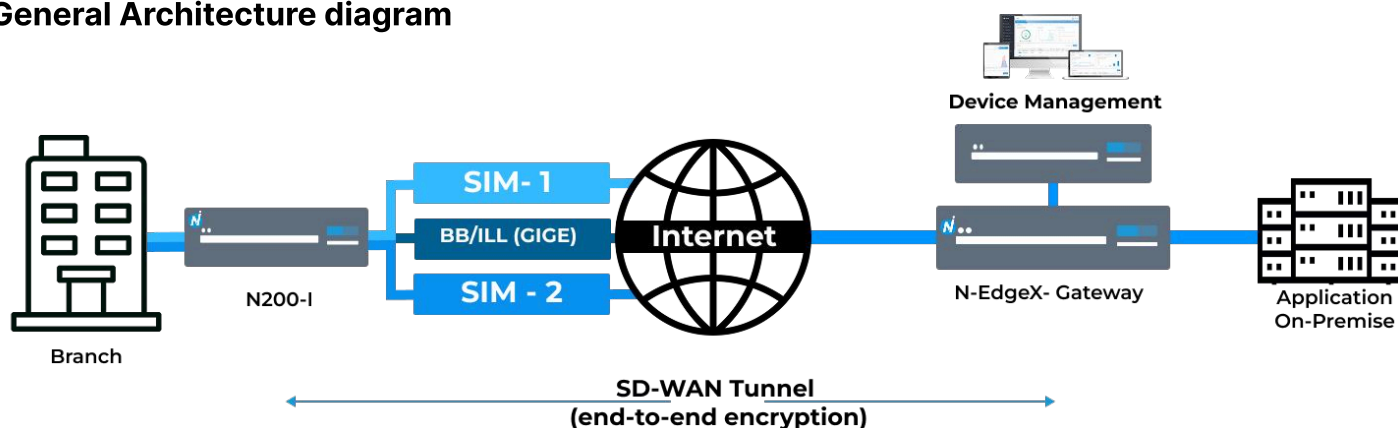
Overview

The N-EdgeX Gateway with NVX86 is a robust 1U rackmount network appliance engineered with the Intel® LGA1151 Core i5-6500 3.20GHz Quad-Core processor (4 threads, 65W TDP). Architected for entry-level to mid-range network SD-WAN gateway deployments, it offers dependable performance and seamless scalability, making it ideally suited for demanding enterprise infrastructures and service provider environments.

Features

- Compact 1U standard chassis built with high-quality galvanized steel for durability and optimal heat dissipation.
- Powered by Intel® LGA1155 i5-6500 processor, 3.20GHz, Quad-Core, 4 Threads, with a 65W TDP.
- Video output: 1 × VGA interface.
- Network interfaces: 8 × Intel i211 Gigabit Ethernet ports with Wake-on-LAN and PXE boot support.
- Expansion module: 1 × NIM slot supporting 4 × GbE/10GbE SFP or 4 × GbE RJ45 (optional).
- USB connectivity: 2 × USB 3.0 ports
- Storage support: Compatible with SSD and SATA HDD storage devices.
- Console interface: 1 × RS232 port for system management and configuration.

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.

NVX86 SOFTWARE FEATURES

FEATURE	DESCRIPTION
Diagnostic tool	<ul style="list-style-type: none"> • GUI based Diagnostic tool (ping, traceroute etc)
Local & Remote Management	<ul style="list-style-type: none"> • A Support for NIRAD NMS (Controller) • Configuration visibility and troubleshooting
Operating System	<ul style="list-style-type: none"> • NiradOS
Monitoring & Management	<ul style="list-style-type: none"> • WEB UI (local GUI) & Nirad NMS (Centralized Controller)
Connection Monitoring	<ul style="list-style-type: none"> • Link Inspection/Quality, Check online/offline status from Nirad NMS. • Ping, Traceroute, and Packet Capturing, Link speed test
IP Allocation	<ul style="list-style-type: none"> • Static and dynamic IP allocation
Integration	<ul style="list-style-type: none"> • Seamless integration with existing and future-ready environments, including NMS platforms, NGFWs, and other security systems, through REST APIs and third-party tools.
Policy-Based Routing:	<ul style="list-style-type: none"> • IP, Port based, Traffic routing policies (rule).
Networking Features:	<ul style="list-style-type: none"> • Static routing, Port Forwarding, Layer 2, 3, and 4 Filtering
Network Protocols:	<ul style="list-style-type: none"> • TCP, UDP, IPv4, IPv6, ICMP, NTP, DHCP, DNS, HTTP, HTTPS,
Firmware Update:	<ul style="list-style-type: none"> • locally and Centrally
Firewall	<ul style="list-style-type: none"> • Zone based firewall (Support Traffic & custom rules policies) • NTP support • DDOS Prevention • Port scan prevention • Web & URL Filtering (Blacklist & Whitelist)
Route redistribution	<ul style="list-style-type: none"> • Supports Route information sharing across SD-WAN overlay and underlay
Load balancing	<ul style="list-style-type: none"> • Supports Equal-Cost Multi-Path (ECMP) routing, Packet Based Load Balancing for efficient traffic distribution
VPN Tunnels	<ul style="list-style-type: none"> • Supports SSL-based VPN (with capabilities comparable to IPsec), along with PPTP, GRE, L2TP, and OpenVPN. • Encryption methods - DES, 3DES, AES128, 192, 256
Bridging	<ul style="list-style-type: none"> • Support layer2 bridging
High availability	<ul style="list-style-type: none"> • Support DC-DR Deployment • Support Automatic failover

PRODUCT SPECIFICATIONS

FEATURE	DESCRIPTION
CPU	<ul style="list-style-type: none"> • Supports Intel LGA1155 packaged i5-6500 3.20GHz Quad core four thread processor with TDP 65W
Chipset	<ul style="list-style-type: none"> • Integrated Intel B150 Express Chipset
BIOS	<ul style="list-style-type: none"> • AMI SPI FLASH BIOS
Expansion Slot	<ul style="list-style-type: none"> • 1 x Mini PCIe - 1*Mini-PCIE slot
Memory	<ul style="list-style-type: none"> • Technology - DDR3 2133/2400, • Max - 32GB, • Socket - 2 x SODIMM
Storage	<ul style="list-style-type: none"> • HDD/SSD - Support 2*2.5 inch or 1*3.5-inch hard disk expansion, • mSATA - 1
Ethernet	<ul style="list-style-type: none"> • 1x 1G LAN • 1x 1G WAN • 1x1G HA • 5x 1G LAN/WAN • 4x 1/10G SFP+ or 4x1G RJ45 (optional)
Expansion Slot	<ul style="list-style-type: none"> • 1 x Mini PCIe - 1*Mini-PCIE slot
Throughput	<ul style="list-style-type: none"> • ≥10 Gbps

I/O INTERFACE

FEATURE	DESCRIPTION
LED	<ul style="list-style-type: none">• 1 x Power LED,• 1 x HDD Active
Console	<ul style="list-style-type: none">• 1 x RJ45 Console
USB	<ul style="list-style-type: none">• 2 x USB 3.0
Power Input	<ul style="list-style-type: none">• Built-in 1U standard power supply (90~264V)
System	<ul style="list-style-type: none">• 2x Cooling fan
Watchdog	<ul style="list-style-type: none">• Yes
Temperature	<ul style="list-style-type: none">• Operating: 0°C – 45°C• Storage: -20°C – 70°C



Bangalore, India

Prestige Technology Park III, 9th Floor, Venus Block, Amane Bellandur Khane, Hobli,
Marathahalli Ring Road, Varthur, ORR, Karnataka 560103

Email us: sales@niradnetworks.com

Visit us: www.niradnetworks.com