

N200-I

Model
EdgeX-Dual-5G-Global

WAN Link Diversity

Supports and combines multiple connectivity options, including ILL (Internet Leased Line), Broadband (BB), and 4G/5G (M2M & Internet SIMs).

Dynamic Path Selection

Automatically detects link quality based on parameters like packet loss, latency, and jitter.

Zero Touch Provisioning (ZTP)

With ZTP, all configurations are done remotely, allowing for quick and easy setup without the need for on-site technical expertise.

Application Aware Policies

Define application behavior by configuring QoS as well as Forwarding policies

Centralized Configuration and Management

Enables streamlined deployment, monitoring, and control of the network from a single interface, improving operational efficiency.

Reduced Security Complexity

Integrated security features within the SD-WAN framework minimize the need for multiple point solutions, simplifying security architecture.

Policy-Based Governance

Facilitates clear alignment between business objectives and network behavior through intent-driven, application-aware policies.

Introduction-

NIRAD N200-I is a smart and reliable Industrial grade 5G Cellular EDGE device with Dual SIM 5G SD-WAN solution designed for businesses with multiple branch locations and hybrid WAN setups. It brings together powerful features like private Layer 2 Ethernet connections between sites and flexible Layer 3 routing that adapts based on applications and policies.

With advanced capabilities like VPN Channel Fusion, EdgeX N200-I ensures smoother performance by combining bandwidth across different tunnels. It also supports Direct Internet Access (DIA) for faster and more efficient access to cloud applications. Designed with resilience in mind, it offers a gateway component for data center and disaster recovery needs, along with backup tunnel support.

EdgeX N200-I offers a well-rounded, easy-to-manage solution that helps businesses stay connected, secure, and efficient.



Orchestration & Management

FEATURE	DESCRIPTION
Cloud-native Orchestration	Centralized controller hosted on NIRAD cloud, supports secure WebSocket communication.
Zero Touch Provisioning (ZTP)	Automated onboarding of EDGE and Gateway devices
Profile-based Configuration	Simplified device configuration from a single console
Multi-Tenant Support	Logical partitioning of infrastructure to support multiple customers or departments (Multiple Levels of User Authority)
On-Prem / Cloud Option	Deployable on VMs & cloud instances
Management Option	Web, CLI, DeviceHub, SNMP v1/v2/v3, SMS
Other Option	Tacacs+, Local Authentication, AAA Radius, LDAP

Connectivity

FEATURE	DESCRIPTION
Hybrid WAN Support	Supports MPLS, Broadband, ILL, 4G & 5G
Active-Active Tunnel Aggregation	Load-balancing and link bonding across multiple WAN paths
Failover & HA	Active-Standby or Active-Active redundancy for EDGE and Gateway (VRRP, WAN Failover, Dual SIM Backup)
Virtual Private L2 Overlay	Point-to-point Layer 2 connectivity
VPN-based Tunnels	AES-256 encrypted tunnels with SSL VPN
Per-Packet Load Balancing	VPN Channel Fusion technology to bond WAN links
Direct Internet Access (DIA)	Direct breakout to cloud and internet applications
VPN-based Tunnels	Supports standard IPsec, OpenVPN, L2TP, GRE, SSI, PPTP

Performance Monitoring

FEATURE	DESCRIPTION
Real-Time Analytics	Dashboard with bandwidth usage, network traffic, link performance
Historical Reporting	Traffic trend analysis with exportable XLS reports
Alerting	Alarm triggers based on thresholds or events

Routing

FEATURE	DESCRIPTION
VRRP	Supports standard routing protocols for HA and hybrid deployments
Routing	Static routing, Dynamic routing (Optional - BGP, OSPF, RIP)
Forwarding and Quality of Service	WAN based prioritization, low latency queue
Network protocols	IPv4, IPv6, PPP, PPPoE, TCP, UDP, DHCP, RIPv1/v2, HTTP, HTTPS, DNS, Telnet, VLAN, SSH, SNMP v1/v2c/v3, DDNS, VRRP, ARP, QOS, SNTIP,
Connection monitoring	ICMP for link inspection
Firewall	Port forward, traffic rules, custom rules
Network firewall	Distributed stateful firewall, distributed and centralized policy enforcement
DHCP	Static and dynamic IP allocation
Load balancing	Balance your internet traffic over multiple WAN links

Security

FEATURE	DESCRIPTION
Built-in Firewall	Stateful and zone-based L3 firewall
URL Filtering	URL filtering and manual allow/block lists (IP & Domain)
DoS/DDoS Mitigation & Protection	Detection and control at the edge
Role-Based Access Control	Granular admin access for centralized control
Network Segmentation	VRF-based traffic isolation per customer or business unit
Security	Access Control, DMZ, Port Mapping, MAC Binding, IP Passthrough

Deployment Flexibility

FEATURE	DESCRIPTION
SD-Ports	Configurable WAN/LAN port roles based on topology
SIM Support	Supports 5G*/4G connections with WAN failover (*Supports Global 5G NSA & SA)
Ethernet WAN	Up to 4 WAN ports on EDGE devices

Product Specifications

MODEL	INDOOR
Ethernet - LAN/WAN	<ul style="list-style-type: none"> 4 * LAN Port, 10/100/1000 Mbps 1 * WAN Port, 10/100/1000 Mbps
USB	<ul style="list-style-type: none"> 1 x USB 2.0, 1 * USB 3.0
Antenna Port	<ul style="list-style-type: none"> Yes (Support External & Built-in Antenna)
Memory & RAM	<ul style="list-style-type: none"> Quad Core CPU and 8 GB Memory
LED	<ul style="list-style-type: none"> Power LED x 1 HDD Active x 1 LAN LED x 8 (Optional Status LED x 1) LTE/5G LED x 2
Power Button	<ul style="list-style-type: none"> 1
SIM Card Slot	<ul style="list-style-type: none"> Dual 4G/5G Sim Card Slot
DC Jack	<ul style="list-style-type: none"> DC jack x 1
Power supply	<ul style="list-style-type: none"> 12V DC-in power connector
Display	<ul style="list-style-type: none"> 1 x VGA
Use the environment	<ul style="list-style-type: none"> Operating temperature : -10°C upto 70°C



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