

Secure Edge Basic LTE

neeve 

Product
Data Sheet

The Secure Edge Basic appliance integrates with the Neeve Secure Edge Platform to offer a comprehensive solution for OT cybersecurity, zero-trust remote access, and edge application deployment. The Basic offering is a fanless, robust device tailored for smaller deployments that require security and remote access for a limited number of devices, and where edge applications have modest CPU and memory needs.

The Secure Edge Basic is suitable for use cases such as:

- Cellular Connectivity where a dedicated line is not available.
- Deploying Tridium Niagara or Neeve's OT Edge Integration service to stream a few hundred data points to the cloud.
- Securing and remotely managing equipment at a retail branch location or a small multi-family building remotely.
- Providing remote access to sites during commissioning and construction.

One Basic appliance is sufficient for a building, but additional devices can be installed if networks terminate in separate physical locations and need to be connected and converged in the cloud.

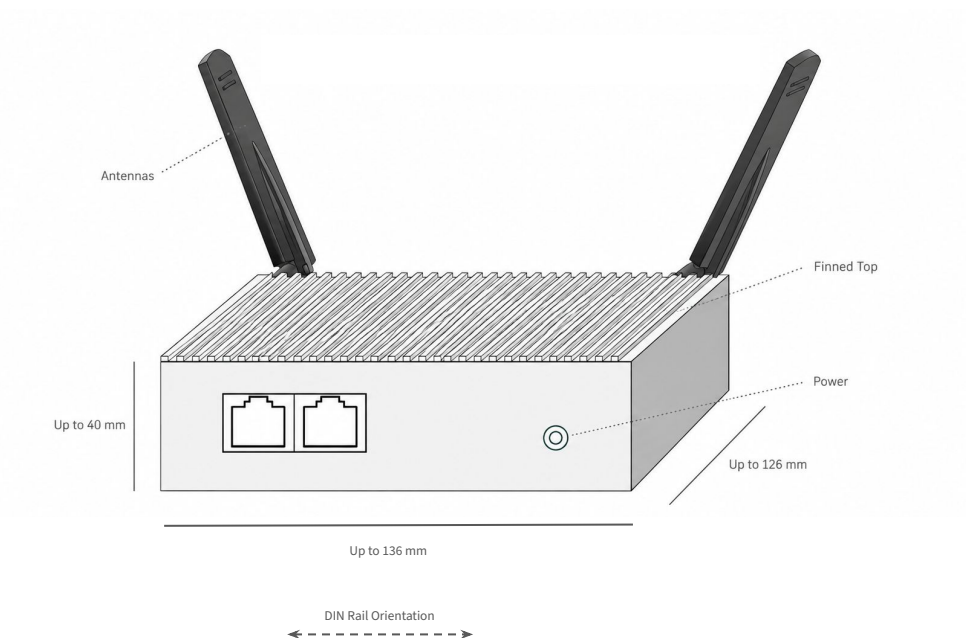


Hardware Specifications

The appliance is provided as a managed service on subscription basis. Neeve offers a variety of certified hardware platforms for the Secure Edge solution. The below specifications are inclusive of all varieties.

Devices may support additional functionality and ports.

DIMENSIONS & PORTS



INCLUDED WITH HARDWARE

- (2) RJ45 Ethernet cables 3ft
- (1) Power supply
- (1) Power cord North America & Taiwan 6 ft
- (1) LTE module with pre-installed SIM supporting over 175 countries and over 400 carriers.

Neeve Secure Edge Basic LTE

A robust solution for security, remote access, edge applications and high-availability. Core uses cases are:

All the use cases of Secure Link plus

- Offloading building systems to the cloud
- Run building system Services on your Neeve Node
- Converging OT networks in the cloud

	SECURE EDGE
	BASIC
Zero Trust Cybersecurity & Network	
Security Policies	✓
LANs Supported	2
Secure Tunnels *	5
Active Threat Intelligence	✓
Cellular LTE Capable	✓
Secure Remote Access	
Cloud Management	✓
Supported Endpoint Connections **	25
Number of Unique Global Users	Unlimited
Simultaneous Web Users per Site	Unlimited
Neeve Agent Monthly Active Users (MAU) per Site	10
Secure Edge Compute	
Neeve Core Services ***	✓
Services Marketplace ****	2
Optional Licenses Available	
Neeve Agent - Additional Users	✓
Universal Cloud Gateway	✓
High Availability	✗
Multi-NIC	✗

* 1 secure tunnel is used for Remote Access

** An Endpoint is a unique combination of device (IP address) and port for remote access (e.g. remote access to the BMS web UI on port 80 is 1 endpoint)

*** These include LAN DHCP, NTP client & Network Troubleshooting and secure tunnels

**** Combined Services cannot exceed 75% of Node CPU, Memory or Storage. Note, some Services scale up resource footprint relative to amount of data they handle.

Specifications

There are multiple hardware variants. The below information is inclusive of all.

GENERAL

Dimensions (W x D x H)	Up to 136 x 126 x 40 mm
Weight (Net)	Up to 2.2 lb
Power Requirement	12V DC or 24V DC - Model Dependent - See Individual Hardware spec sheet
Power Consumption	Typical 15W, up to 35W
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F) with 0.7m/s airflow @ up to 90% RH
Storage Temperature	-40 ~ 85 °C / -40 ~ 185 °F

SYSTEM HARDWARE & INTERFACES

Hardware Security	TPM2.0
LAN Ports	At least 2 x RJ45, 10/100/1000 Mbps 1000BASE-T Fast Ethernet
USB Ports	At least 2 x USB 2.0 <i>(use for external storage disabled for security)</i>
Display Output	1 x HDMI (1920 x 1080 @60Hz)
CPU	4 Cores
Memory	At least 4GB
Storage	At least 32GB
Certifications	CE, FCC, RoHS
DIN Mount	Yes
LTE Module (optional)	Quectel EG25-GL Mini PCIe - IoT/M2M-optimized LTE Cat 4 Module Worldwide LTE, UMTS/HSPA(+) and GSM/GPRS/EDGE coverage Antenna Connector: SMA (F) <i>Frequency Bands:</i> LTE-FDD B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66 LTE-TDD B34/38/39/40/41 WCDMA B1/2/4/5/6/8/19 GSM/EDGE B2/3/5/8 <i>Max Data Rates:</i> LTE-FDD (Mbps) 150 (DL)/50 (UL) LTE-TDD (Mbps) 130 (DL)/30 (UL) DC-HSPA+ (Mbps) 42 (DL)/5.76 (UL) WCDMA (kbps) 384 (DL)/384 (UL) EDGE (kbps) 296 (DL)/236.8 (UL) GPRS (kbps) 107 (DL)/85.6 (UL) <i>Regulatory Certifications:</i> Global: GCF, EU: CE, NA: FCC, UK: UKCA, CA: IC, TW & CN: NCC, US & NZ: RCM

Secure Edge Basic LTE Product SKUs

	Description	SKU
Secure Edge Basic LTE	Hardware and software as a service. Available in 1 or 3 year term	SE-BASIC-LTE

Optional Product SKUs

The core functionality of Neeve's Secure Portfolio can be extended with a host of services and add-on products.

	Description	SKU
Pre-configuration	For customers with high-volume of bespoke site configuration such as static WAN, devices can be pre-configured in the factory prior to shipping.	SERVICES-PROSERVICES-PRECONFIG
Neeve Agent Additional End Users License	License to enable end users to use a desktop or mobile agent to securely connect native applications to devices in a building. 10-pack license	SE-REMOTEACCESS-ENDUSER-ADDITIONALUSERS-10
OT Edge Integration Service - Site License	Annual license for application framework for BACNet, Modbus and Fox integrations. Available with 1 or 3 year term.	SE-APP-EDGEINTEGRATION
Unified Cloud Gateway	Simplify deployment and protect your traffic from site to Neeve Cloud, meeting TLS requirements. All data from your System Network on the Node is securely tunneled to the Neeve Cloud. From there, it can be send to additional 3P endpoints per your configuration. Each license includes up to 25 tunnels and 100GB / month of aggregate traffic. ie 25 Nodes with a Converged LAN is the same as 1 Node with 25 System Networks. For additional tunnels or throughput, additional licenses can be purchased in these same increments	SE-UCG
Neeve Sectrify - AI-powered Advanced Security Add-on	"Neeve Sectrify AI-powered Advanced Security Add-on - Next-Generation Firewall, AI Threat Detection & Prevention, Granular, Protocol-Level Control. Price per site, per year."	Sectrify-Ent

Multi-carrier Connectivity (Optional)

Neeve devices with the optional cellular connectivity come pre-installed with a multi-carrier enabled SIM from Advantix (<https://advantixsolutions.com/smartsim/>) that connects to 6 domestic carriers – AT&T, Verizon, T-Mobile, Cellular One, Union and US Cellular– in the U.S., and 470+ providers globally. These SIMs provide a host of benefits that make them superior to a single-carrier solution.

Flexible - All contracts and billing is month to month, so you can easily change plans or deactivate cards whenever with no penalties

Reliable - The multi-carrier support means that the SIM will automatically select the network with the best signal for every location, regardless of provider. So for example, locations with poor Verizon connectivity will automatically use T-mobile or ATT.

Resilient - The multi-carrier support is dynamic, so if a carrier's service goes down the SIM will automatically shift to a new carrier. This reduces risk for downtime and ensures better performance.

Simple - For national and global deployments there is no need to manage multiple providers and multiple SIM types, everything is available in a single unified portal.

Cost Effective - All data plans are pooled, so there is no need to overpay for unused bandwidth just to ensure you can cover occasional spikes in usage.

Secure - SIMs are pre-installed in a tamper-resistant case, making them more difficult for malicious parties to remove if they get access to the device.

Multi-carrier Connectivity (Optional)

Customers purchasing the cellular option will need to sign-up with Advantix for connectivity. For more details visit <https://advantixsolutions.com/smartsim/>

In their base pricing Advantix supports all major countries and the carriers listed below. Secondary and tertiary countries are supported, but outside of standard pricing models and must be negotiated directly with Advantix.

Albania: Vodafone Albania, Eagle Mobile (sub-LTE speeds), AMC
Andorra: Mobiland
Armenia: UCOM (Orange), ArmenTel
Australia: Optus, Telstra MobileNet, Vodafone
Austria: A1, T-Mobile, Hutchison Drei Austria
Belarus: BEST, VELCOM
Belgium: Mobistar, Proximus, Base
Bulgaria: M-Tel Gsm, Vivacom, Globul
Canada: TELUS, Rogers Wireless, Inc., Bell Mobility, Inc
China: China Unicom, China Mobile
Croatia: Tele2, T-Mobile Croatia, VIPnet
Cyprus: CytaMobile, MTN
Czech Republic: O2, T-Mobile, Vodafone
Denmark: TDK-Mobil, Hi3G Access AB 2, Telia Mobile, Telenor A/S
Estonia: Telia, Tele2Eesti AS
Finland: Sonera, DNA, DNA networks Ltd
France: Bouygues Telecom, SFR, Free, Orange
Germany: O2, Vodafone, T-Mobile (Telekom Deutschland GmbH)
Gibraltar: Gbtl, Vodafone
Greece: Cosmote, Wind Hellas
Hong Kong: CWHKT, H3G Hong Kong
Hungary: Telenor, T-Mobile, Vodafone
Iceland: Siminn, Nova
Indonesia: Telkomsel, Hutchison 3 (sub-LTE speeds)
Ireland: Meteor, Vodafone, H3G
Israel: Partner IL, Pelephone, Cellcom
Italy: Telecom Italia, Vodafone, Iliad, Wind Tre
Japan: Softbank, DoCoMo, KDDI
Jordan: Orange, Zain
Kazakhstan: Mobile Telecom-Service LLP, Beeline
Korea: SK Telecom, KT
Kuwait: Zain, KTC, Wataniya Telecom
Latvia: Tele2, LMT Gsm
Liechtenstein: Telecom Liechtenstein
Lithuania: Orange, UAB Tele2, Omnitel
Luxembourg: Orange, POST
Macau: CTM

Malaysia: Maxis, Celcom, Digi Telecom
Malta: Vodafone Malta, Go Mobile
Mexico: Telcel, Telefonica Moviles Mexico, AT&T Comercializacion Movil
Montenegro: T-mobile
Myanmar: M.tel, Myanmar Posts and Telecommunications
Netherlands: KPN Telecom, T-Mobile NL, Vodafone
New Zealand: Vodafone New Zealand Ltd, Telecom Spark NZ, NZC
North Macedonia: ONE DOO Skopje, MobilMak, Vip Operator
Norway: NetCom, Telenor, Network Norway AS
Philippines: Smart, Globe Telecom
Poland: Orange, P4, T-Mobile, Plus Gsm
Portugal: Vodafone, Optimus
Puerto Rico: AT&T, T-Mobile, Puerto Rico Tele Company CLARO
Reunion: Orange
Romania: Orange Romania, Vodafone
Russia: MTS, MegaFon, BeeLine
Saudi Arabia: Al Jawwal, Mobily, Zain MTC
Serbia: Telenor, Telekom Srbija (mts), Vip
Singapore: SingTel Mobile, StarHub
Slovakia: Orange, Telekom, Telefonica Slovakia, s.r.o.
South Africa: SI. Mobil, MTN, Vodafone
Spain: Vodafone, MasMovil, Orange, Telefonica
Sri Lanka: Hutchison Telecommunications
Sweden: Telia, Telenor, 3
Switzerland: Salt Mobile (Orange), Sunrise
Taiwan: Taiwan Mobile, Far EasTone, Chunghwa Telecom
Thailand: TH AIS, Real Future, Dtac
Turkey: AVEA, Vodafone, Turkcell
UAE: DU, Etisalat
Ukraine: Vodafone (MTS), Life:-), Kyivstar
United Kingdom: Vodafone, O2 UK, EE, Hutchison 3G, T-Mobile, JT Gsm
United States: Verizon, T-Mobile, AT&T, US Cellular, Union Telephone Company, Cellular One, Pulse Mobile LLC
Vietnam: Vms Mobifon, Vietnamobile (H3G), Viettel

FAQ

Where can I find your Service Level Agreement?

<https://neeeve.ai/sla/>

I have a SE Basic and some features I want to add are only available on SE Pro, can I upgrade?

Yes, you can upgrade at any point in your contract. If you are using a hardware Node that does not support the Pro feature set, you will be required to return your existing Node and Neeve will send you a SE Pro capable appliance.

See docs.neeeve.ai for additional information.