

Nextriv Hub Mini

Compact indoor radio gateway

NX-GW-MINI

Nextriv Hub

A lightweight 8-channel indoor radio gateway — the simplest way to start a Nextriv network. It receives sensor readings over long-range, low-power radio (LPWAN) and forwards them to the Nextriv platform via Ethernet or an optional 4G modem with automatic link switching. The discreet housing — 115 mm across, 140 g — packs a radio with -140 dBm sensitivity that handles up to approx. 2,000 devices. A built-in network server (up to 20 devices) with an MQTT API lets a small system run without any external infrastructure.



~2,000

supported devices

8

radio channels

-140 dBm

receiver sensitivity

1.3 W

typical power draw

Key features

- The smallest hub in the line-up: Ø115 × 21 mm, from 140 g — as discreet as a smoke detector; desk, wall or ceiling mounting
- 8 half-duplex radio channels and capacity for approx. 2,000 devices — a modern, low-power radio chipset
- Built-in network server (up to 20 devices) with an MQTT API — a small system runs without an external server
- Two internet uplinks with automatic switching: 10/100 Ethernet + optional 4G LTE Cat 1 modem (micro SIM)
- Three ways to power it: USB-C 5 V/2 A, 5–12 V DC cable or 802.3af PoE via a splitter — 1.3 W typical power draw
- -140 dBm sensitivity and range up to approx. 2 km in built-up areas / approx. 15 km in open terrain — one hub covers a mid-sized building
- Packet filtering and data retransmission after connectivity outages; watchdog and VPN client
- Configuration over Wi-Fi (AP mode) from a phone or laptop; remote management and updates via the web panel and the Nextriv platform

Technical specification

Radio — sensor side	
Technology	long-range, low-power radio (LPWAN)
Radio band	EU868 (EU); regional variants: US915, AU915, AS923, IN865, KR920, RU864
Channels	8 (half-duplex)
Receiver sensitivity	down to -140 dBm (at 292 bps)
Tx power	max. 27 dBm
Antenna	1× external (included)
Network capacity	approx. 2,000 devices (depending on uplink/downlink traffic)
Sensor–gateway range	up to approx. 2 km in built-up areas / approx. 15 km in open terrain [1]
Communication	two-way — readings to the platform, remote sensor configuration via downlink

Internet uplink (backhaul)	
Ethernet	1× RJ45 (WAN), 10/100 Mbps auto-sensing
Cellular modem (optional)	4G LTE Cat 1 / GSM; LTE Tx power Class 3 (23 dBm $\pm$ 2 dB); 1× external antenna
Cellular bands	global variant (excl. North America): LTE-FDD B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/66, LTE-TDD B34/38/39/40/41, GSM B2/3/5/8; North America variant: LTE-FDD B2/4/5/12/13/66
SIM card	1× micro SIM (3FF) — cellular variant
Failover	automatic link switching between Ethernet and 4G (link backup)

Interfaces	
Ethernet	10/100 Base-T (IEEE 802.3), auto MDI/MDIX, full/half duplex, 1.5 kV RMS isolation
USB	1× USB 2.0 (USB-C) — power supply and service console
Wi-Fi	IEEE 802.11b/g/n, 2.4 GHz, AP mode (device configuration only), WPA-PSK security
Indicators	2× LED: system status, cellular modem
Button	1× reset

Hardware platform	
CPU	dual-core 240 MHz, 32-bit
Memory	8 MB PSRAM
Flash	16 MB

Device features	
Built-in network server	up to 20 devices; integration via MQTT API
Data forwarding	packet forwarding to the Nextriv platform or compatible network servers
Advanced features	packet filtering, data retransmission after a connectivity outage
Network protocols	HTTP, HTTPS, MQTT
VPN	OpenVPN client
Reliability	link backup, built-in watchdog and timer
Configuration	web panel, MQTT API, remotely from the Nextriv platform
Updates	web panel, remotely from the Nextriv platform
Diagnostics	ping tool

Power	
Power supply	USB-C 5 V/2 A; 5–12 V DC cable; 802.3af PoE via a splitter
Power consumption	1.3 W typical, 3.1 W max.

Enclosure and operating environment	
Operating temperature	-20...+50 °C (-4...+122 °F)
Storage temperature	-40...+85 °C (-40...+185 °F)
Ambient humidity	0...95 % RH, non-condensing (at 25 °C)
Ingress protection	IP30 (indoor use)
Housing	PC + ABS, white
Dimensions	Ø115 × 21 mm (Ø4.52 × 0.83 in), antennas excluded
Weight	140 g (non-cellular variant) / 158.2 g (4G variant)
Mounting	desk, wall or ceiling — 2× wall mounting kits included

Compliance and approvals	
Approvals	CE, FCC
Environmental	RoHS

Ordering information	
Product code (SKU)	NX-GW-MINI
Variants	non-cellular (Ethernet) or with a 4G LTE modem (micro SIM; bands: global or North America variant) — specify the variant when ordering
Accessories	2× wall mounting kits; USB-C cable (1 m) with power adapter or PoE splitter — one of the two as standard, the other optional
Works with	Nextriv Sense / Probe / Weather sensors

[1] Radio range is indicative — the actual range depends on buildings, terrain, obstacles and radio interference.

Specifications are subject to change without notice. The latest document versions are available in the download centre: nextriv.com/files. Questions: nextriv.com/contact.