

TECHNICAL SPECIFICATIONS

Horus Nexxo 800 Controller

HSC-ZW885

Engineering data for the HSC-ZW885 Horus Nexxo 800 multi-protocol controller.

Rev. 1.0 | October 2026



System

Platform	Home Assistant on Debian Linux. Local control, no cloud dependency
Processor	Allwinner H618, quad-core Arm Cortex-A53
Memory	2 GB RAM, 8 GB eMMC flash
Hardware version	ZW885-V2.2 (as tested for FCC)

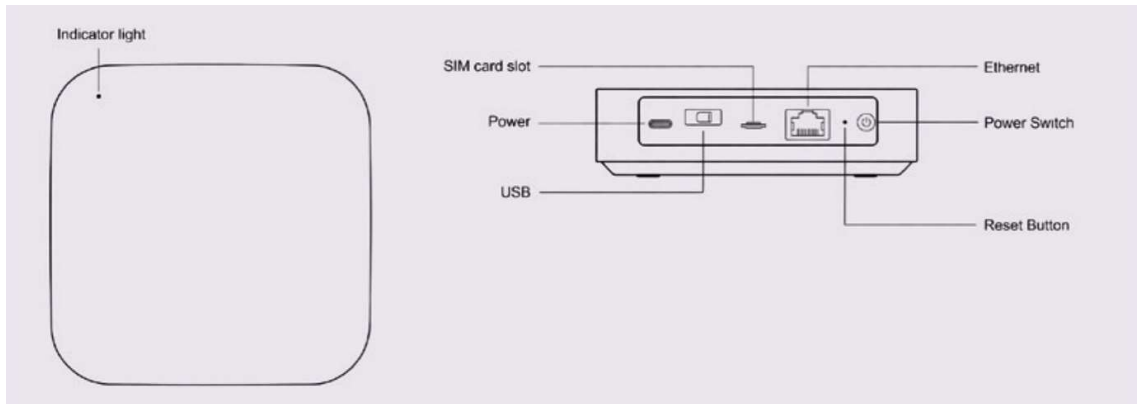
Radios

Radio	Chipset	Frequency (US)	Notes
Z-Wave 800	Silicon Labs EFR32ZG23	908.4, 908.42, 916 MHz	Mesh. FSK. SMD antenna, 2 dBi
Z-Wave Long Range	Silicon Labs EFR32ZG23	912, 920 MHz	Star topology
Zigbee 3.0	Silicon Labs EFR32MG21	2405 to 2480 MHz	O-QPSK. PIFA antenna, 4.5 dBi
Wi-Fi 6 and Bluetooth 5.2	AW869A module	2.4 GHz and 5 GHz	Covered by FCC certification

Interfaces and power

Wired interfaces	Ethernet 10/100 Mbps (RJ45), USB-A, USB Type-C (power)
Power supply	5 VDC, 2 A through USB Type-C. AC adapter included
Controls and indicators	Power switch, reset button, LED status indicator
Other	Real-time clock, two-stage watchdog timer, SIM card slot for the optional LTE version

Ports



Mechanical and environmental

Dimensions	120 x 120 x 33 mm (4.7 x 4.7 x 1.3 in)
Operating environment	14 to 122 °F (-10 to 50 °C), up to 90 % RH, non-condensing
Use	Indoor only

Software

Operating system	Debian Linux with Home Assistant
Web interface	http://homeassistant.local:8123 or <a href="http://<controller IP>:8123">http://<controller IP>:8123
Z-Wave stack	Z-Wave JS. Z-Wave JS UI at <a href="http://<controller IP>:8091">http://<controller IP>:8091 for region and security keys
Integrations	Z-Wave JS, Zigbee (ZHA), and other Home Assistant integrations

Compliance

FCC	FCC certified, September 2026. FCC ID: 2BVJJHSCZW885. Certification covers all radios: Z-Wave, Z-Wave Long Range, Zigbee, Wi-Fi, and Bluetooth
RF exposure	Install with at least 20 cm (8 in) between the antenna and all persons
Z-Wave certification	[TBC: confirm Z-Wave Alliance certification before using the Z-Wave Plus LR logo on the label]

Package contents

- 1 x Horus Nexxo 800 Controller
- 1 x AC power adapter
- 1 x USB to USB Type-C cable
- 1 x Ethernet network cable
- 1 x Quick start guide

Specifications can change without notice. For installation, configuration, and safety information, read the user manual.