Nexus 4G Gateway

Cellular Communications Gateway



4G LTE
Cellular · SIM slot

2 × CAN
Isolated · RJ45

12–60 Vdc
Power input

7 W
Power consumption

Specifications

The AERL Nexus 4G is a communications gateway for real-time monitoring, configuration and control of distributed energy systems through AERL Cloud. It adds an integrated 4G cellular modem, digital inputs and output relays to the Nexus feature set, for remote sites without wired internet.

General

Enclosure type
Indoor Type 1 / IP20

Mounting method
Wall or DIN rail

Input power
12–60 Vdc
5 V USB-C (power input only)

Power consumption
7 W

Encryption
SSL/TLS

Interfaces

CAN bus ports
2 – RJ45

Modbus RS485 ports
1 – RJ45

Ethernet ports
1 – RJ45

Dual band Wi-Fi
Yes

4G cellular
Yes — Micro-SIM slot

Digital inputs
4, isolated

Output relays
2 – SELV, 30 V DC / 24 V AC, 3 A

Environmental

Operating temperature
−20 to 50 °C

Storage temperature
−40 to 70 °C

Ordering

Model
Nexus 4G

Part number
NEXUS-4G

Warranty
2 years

Integrated 4G modem

Cellular connection to AERL Cloud for sites without wired internet, with a SIM card slot.

Isolated CAN bus & RS485

Two CAN bus ports and one Modbus RS485 port, all on RJ45.

Digital inputs & relays

Four isolated digital inputs and two output relays for local I/O.

12–60 Vdc power input

Powered from the system's DC supply, or from 5 V over USB-C.

AERL reserves the right to change any product, product specifications and data without notice to improve reliability, function, or design or otherwise.

Manufactured by

Australian Energy Research Laboratories
1/75 Bluestone Circuit, Seventeen Mile Rocks
QLD 4073

Warranty

2-year warranty

Contact

sales@aerl.com.au
aerl.com.au