INTEGRATION GUIDE

AERL LiFe² → AERL Cloud

Via an AERL Nexus Gateway, Over CAN Bus

AERL Nexus · Rev 1.0.1



REVISION	EFFECTIVE	AUDIENCE	GATEWAY
1.0.1	11 / 2026	Installers	AERL Nexus
TRANSPORT	**APPLIES TO**	**CLOUD SETUP**	**FORMAT**
CAN bus	Any approved CAN device	docs.aerl.cloud	A4 · 3 pages

IN THIS GUIDE

01 Connecting the Nexus to the CAN Bus 02
Inline pass-through or terminated endpoint

02 Getting Online 03
Ethernet, power, claim in AERL Cloud

03 Quick Checklist 03
Commissioning summary

CHAPTER 01

Connecting the Nexus to the CAN Bus

These instructions apply to **any AERL-approved CAN bus product** (battery, inverter, MPPT). Once the Nexus is on the CAN bus, it finds the approved devices and handles their communications automatically: there is nothing to configure on the battery or inverter for monitoring.

The Nexus has two CAN ports that are **internally linked**, so it can sit directly on the existing CAN bus between your AERL-approved products. Connect it one of two ways:

Option 1 — Inline Pass-Through (Preferred)

Insert the Nexus inline on the CAN bus. Because CAN 1 and CAN 2 are internally linked, existing communications keep flowing through the Nexus:

- **Battery → Nexus CAN 1**
- **Nexus CAN 2 → approved inverter / MPPT**

See Figure 1 for this arrangement.

Option 2 — Endpoint with Termination Plug

The Nexus has no built-in termination. If it sits at an end of the CAN bus, connect one CAN socket to the bus and fit a **120 Ω RJ45 termination plug** in the other.

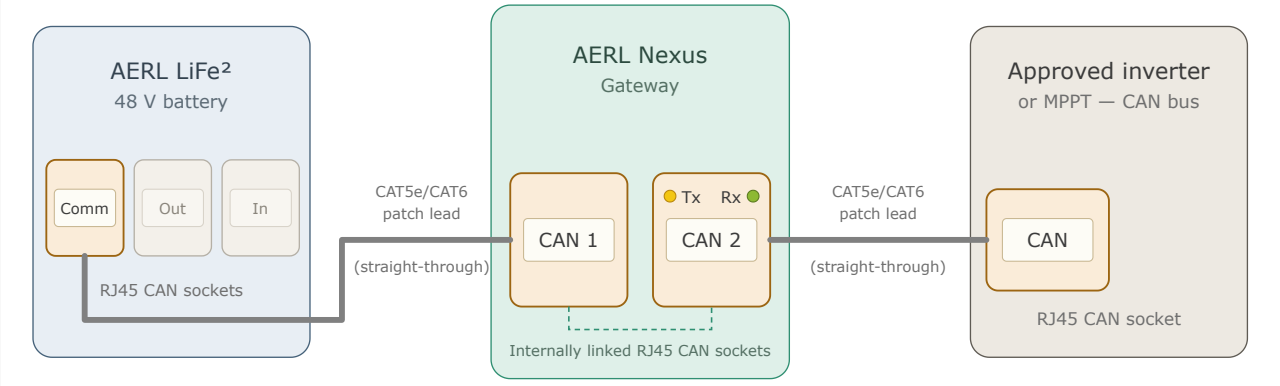


***Figure 1** — Inline pass-through: the LiFe² battery connects to Nexus CAN 1, and the internally linked CAN 2 connects on to the approved inverter or MPPT.*

CHAPTER 02

Getting Online

Once the Nexus is on the CAN bus, it handles the rest. Plug in **Ethernet**, power it on, and claim it in AERL Cloud. For detailed AERL Cloud setup instructions, see docs.aerl.cloud.

CHAPTER 03

Quick Checklist

1. Connect the Nexus to the CAN bus either inline (CAN 1 from the battery, CAN 2 to the inverter/MPPT), or at the end of the bus with a termination plug.
2. Get the Nexus online and claim it in AERL Cloud — see docs.aerl.cloud.
3. Confirm the LiFe² data appears in AERL Cloud.

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