



Bringing Control of Scynce LED Lighting to Facility-Wide Control



The Echo Bridge is engineered to enable full functionality of Scynce LED lighting fixtures from within facility-wide control systems. Equipped with both MODBUS and analog 0–10V inputs, the Echo Bridge provides precise, independent control of all five lighting channels on Scynce LED luminaires.

This integration delivers the same powerful control capabilities you've come to expect from within the Echo Display; including full spectrum control, access to preset spectrums, daily spectrum recipes, and complete grow cycle scheduling, all of which is now accessible directly through your facility's central control system.

Alternatively, when paired with the Echo Display, the Echo Bridge enables seamless control of external 0–10V devices from within the Echo Display. This allows integration and scheduling of third-party lighting fixtures with 0–10V dimming, creating a unified lighting control platform across multiple brands.



PRODUCT SPECIFICATIONS

INPUT VOLTAGE:

Adapter: 120-240VAC, 50/60 Hz
Echo Bridge Input: 24VDC

AMPS: 42mA @ 24V

DIMENSIONS: 5" x 4.4" x 1.3"

WEIGHT: 6.8oz

WATERPROOF SEALING: Suitable for Dry Locations

MAX AMBIENT TEMP: 35° C

CERTIFICATIONS / TESTING:

FCC ID: X8WBT840F / IC: 4100A-BT840F
FCC ID: 2ABCB-RPIRMO

WARRANTY: 5 Years

For details visit us @ (<https://scynceled.com/product-warranty/>)

P/N: Echo Bridge (52852)

CONTROL:

- Up to 75 Scynce LED light fixtures on Wired COM daisy-chain (Gen 3+ fixtures)
- Up to 200 Scynce LED light fixtures on Thread mesh (Gen 1 & 2 fixtures)
- 5 Independent analog 0-10V inputs for full spectrum control of Scynce LED fixtures
- 4 Analog 0-10V outputs for auxiliary control
- USB-C command line interface for setup, diagnostics, and firmware operations
- Dual status indicators for communication activity

Communication:

- Scynce LED Light Fixtures:
 - Daisy-chain COM cable for Gen 3+ fixtures
 - Thread mesh wireless for Gen 1 and 2 fixtures
- MODBUS
 - RTU half duplex at 19200 baud
 - Address range (CLI configurable: 0 to 247)
- USB-C CLI
 - Common Commands: help, mesh enable/disable/state/group, MODBUS address, discover, image list, DFU, version, reboot, serial
- Analog I/O
 - Analog Inputs (0-10V, 5 channels), each input controls one Scynce LED fixture light channel
 1. Master intensity
 2. White color shift
 3. White intensity
 4. Red color shift
 5. Red intensity
 - Analog outputs (0-10V, 4 channels)
Output control source: MODBUS, Echo Display, or Echo Mini

Indicators & Controls:

- MODBUS / AGROWTEK activity LED: Flashes on serial port activity
- Scynce LED activity LED: flashes on fixture bus activity
- Mode Switch button functions:
 - Momentary press: enable/disable Thread Mesh radio
 - Hold for 5 seconds: factory reset
 - Boot-load entry during startup flash window: firmware update mode

Firmware & Maintenance:

- Bridge firmware upgrade via USB UF2 drag-&-drop workflow
- Fixture firmware updates:
 - Gen 3+, via CLI discover/DFU workflow on wired network