

Energi Savr Node™ Programming Interface

The QSE-CI-AP-D is a programming interface designed to be used with Energi Savr Node™ units. It is compatible with the entire Energi Savr Node™ product family (models starting with QSN- and QSNE-), and works with an intuitive application for the *Apple iPhone* or *iPod touch* mobile digital devices.

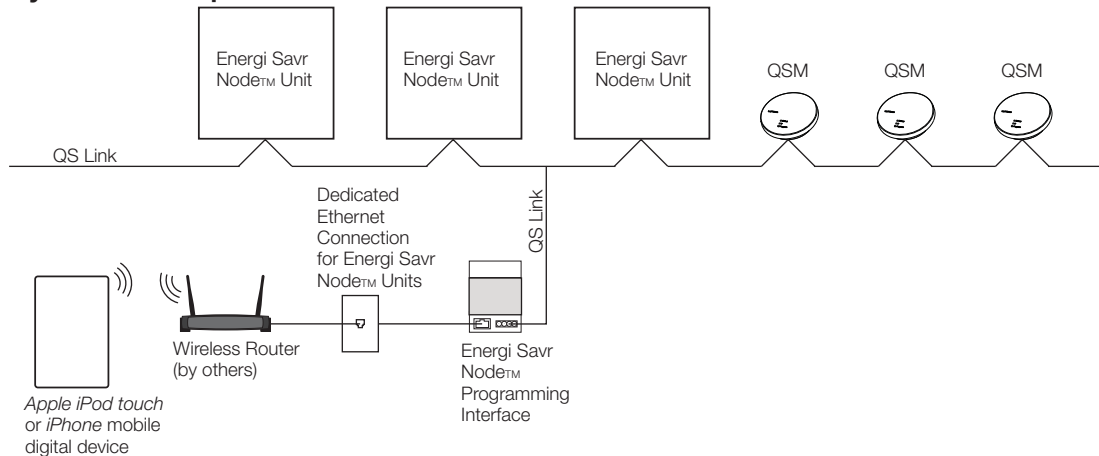
Features

- Program all Energi Savr Node™ modules connected to the same QS link as the Energi Savr Node™ Programming Interface using the Energi Savr Node™ app on the *Apple iPhone* or *iPod touch* mobile digital devices.
- A system is defined as all devices connected on a single QS link. For installations with multiple QS links, one Energi Savr Node™ Programming Interface is required for every QS link.
- Powered by the QS link, line voltage not required.
- Install using one of the three following methods:
 1. DIN rail
 2. Surface mount
 3. Junction box

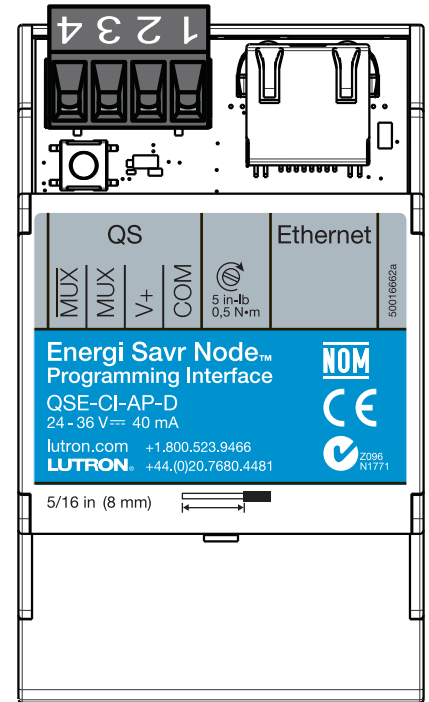
Requirements

- The Energi Savr Node™ Programming Interface is powered by the QS link, and consumes 2 power draw units. For complete information, see "Power Draw Units on the QS Link" Lutron® P/N 369405

System Example



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Unit shown at actual size

Job Name:	Model Numbers:
Job Number:	

Specifications

Power

- SELV/PELV/NEC® Class 2
- Operating voltage: 24–36 V_{AC} 40 mA
- Consumes two (2) power draw units on the QS link. Refer to the QS Link Power Draw Units specification submittal (Lutron® P/N 369405) for more information concerning Power Draw Units.

Standards

- CE Certified
- Lutron® Quality Systems registered to ISO 9001.2000
- NOM Compliant

Environment

- Ambient Temperature Operating Range: 32 °F to 140 °F (0 °C to 60 °C)
- Relative humidity: less than 90% non-condensing
- For indoor use only

Terminals

- Ethernet port
- QS Link Wiring: 22 AWG to 12 AWG (0.5 mm² to 4.0 mm²)

Mounting

- DIN rail - occupies three DIN rail mount spaces at 2.125 in (53 mm) wide
- Surface mount
- Junction box

Programming Requirements

- An *Apple iPod touch* or *iPhone* mobile digital device with the Energi Savr Node™ app is required for programming Energi Savr Node™ units.
- The Energi Savr Node™ app for *Apple iPod touch* or *iPhone* is used to program the Energi Savr Node™ unit in installations requiring an Energi Savr Node™ Programming Interface for commissioning. The Energi Savr Node™ app is available from the *iTunes Store* online marketplace.
- The Energi Savr Node™ app cannot be used to program the Energi Savr Node™ units when installed as part of a Quantum® system.
- The *Apple iPod touch* or *iPhone* communicates with the Energi Savr Node™ unit via a WiFi router (not included).
- See “Programming Options” section for further information.

Ethernet Connection

- Standard CAT5 (or better) cable connects the QSE-CI-AP-D interface to a wireless router.
- Supports MDI/MDIX auto-crossover (no crossover cable needed).
- Total cable length must be 327 ft (100 m) or less.
- Ethernet network and cable provided by others.

QS Link Limits

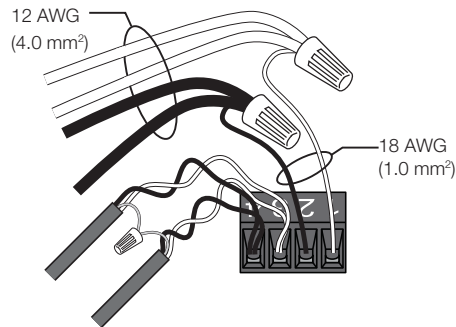
- Each Energi Savr Node™ Programming Interface counts as 1 device towards the 100 device QS link limit.
- QS communication link uses SELV/PELV/NEC® Class 2 wiring. Follow all local and national electrical codes when installing SELV/PELV/NEC® Class 2 wiring with line voltage wiring.
- The total length of the QS link must not exceed 2000 ft (610 m). See table below.

Table 1: QS Link Wiring Options

QS Link Wiring Length	Wire Gauge	Lutron® Cable Part Number
Less than 500 ft (153 m)	Power (terminals 1 and 2) 1 pair 18 AWG (1.0 mm ²)	GRX-CBL-346S (non-plenum) GRX-PCBL-346S (plenum)
	Data (terminals 3 and 4) 1 twisted, shielded pair 22 AWG (0.5 mm ²)	
Up to 2000 ft (610 m)	Power (terminals 1 and 2) 1 pair 12 AWG (4.0 mm ²)	GRX-CBL-46L (non-plenum) GRX-PCBL-46L (plenum)
	Data (terminals 3 and 4) 1 twisted, shielded pair 22 AWG (0.5 mm ²)	

QS Link Terminal Connections

- Each QS link terminal can accept only two 18 AWG (1.0 mm²) wires. Two 12 AWG (4.0 mm²) conductors will not fit. Connect as shown below using appropriate wire connectors.



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Job Name:	Model Numbers:
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Powering the QSE-CI-AP-D

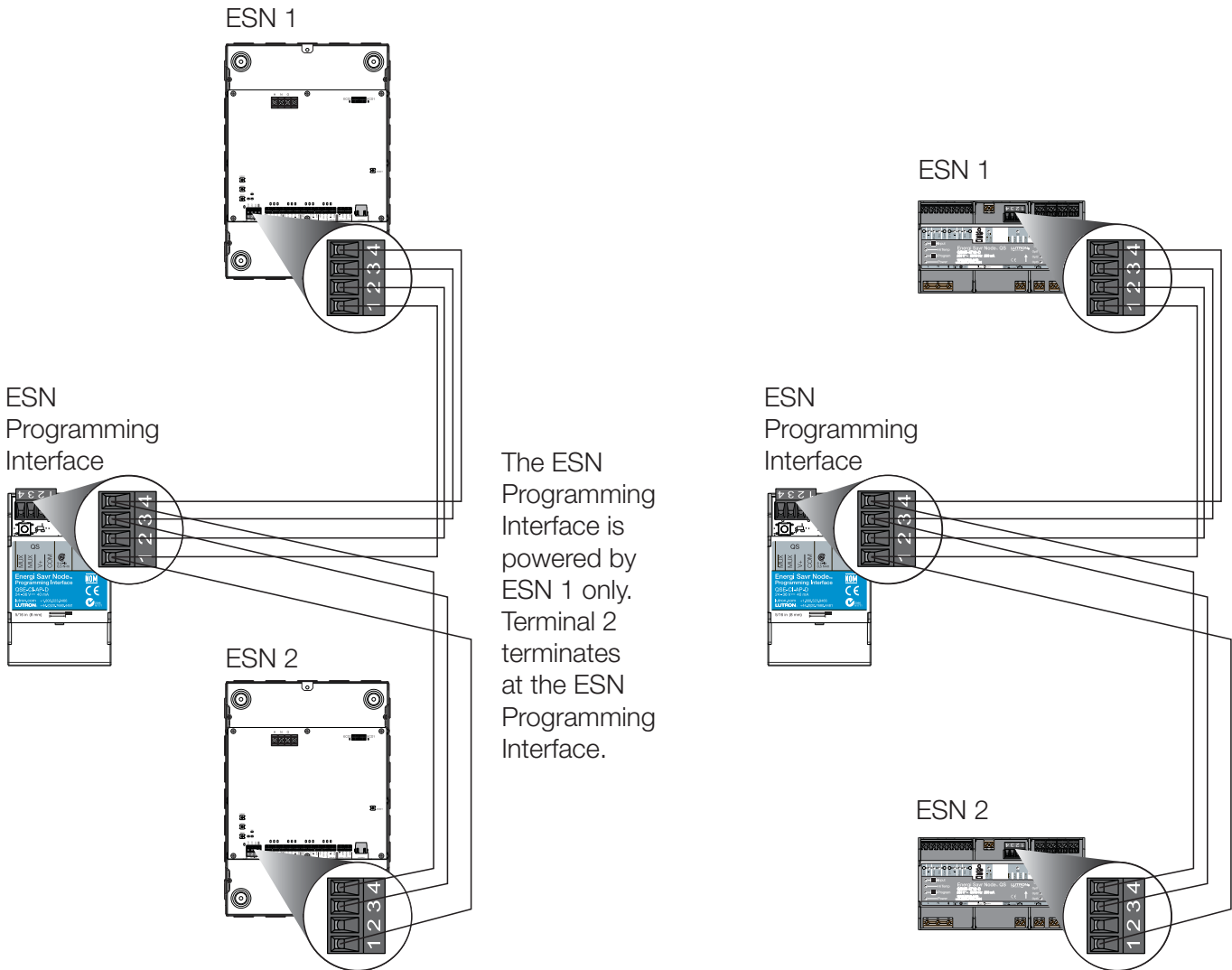
- The QSE-CI-AP-D consumes 2 power draw units on the QS link and counts as one device toward the 100 device QS link limit.
- The QSE-CI-AP-D may also be powered by a QS Link power supply (QSPS-P1-1-50, QSPS-P2-1-50, or QSPS-P3-1-50) or a QS shade panel power supply (QSPS-P2-10-60 for 230 V~, or QSPS-P1-10-60 for 120 V~).

Wiring Example: Using a QS Link Power Supply

ESN = Energi Savr Node™ Unit

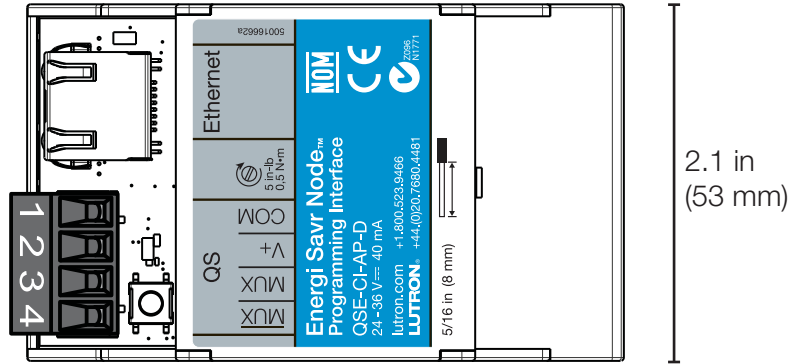
120-277 V~ UL Products

230 V~ CE Products

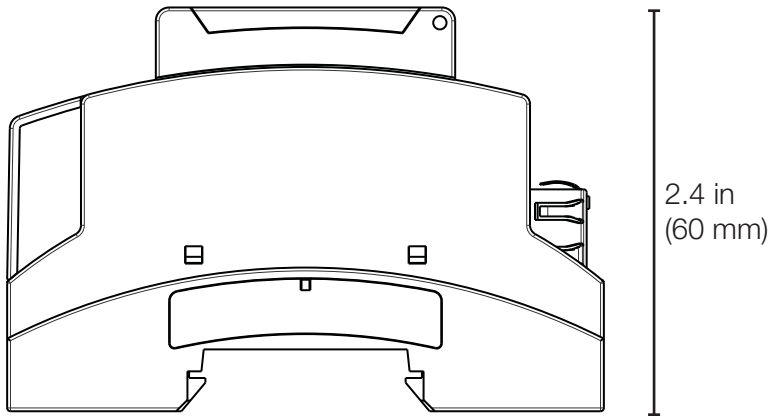


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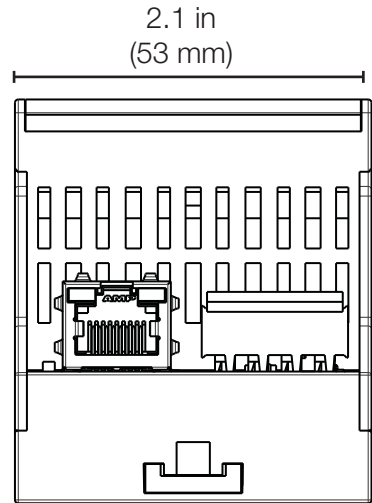
Mechanical Dimensions (using DIN rail only)



3.5 in (88 mm)



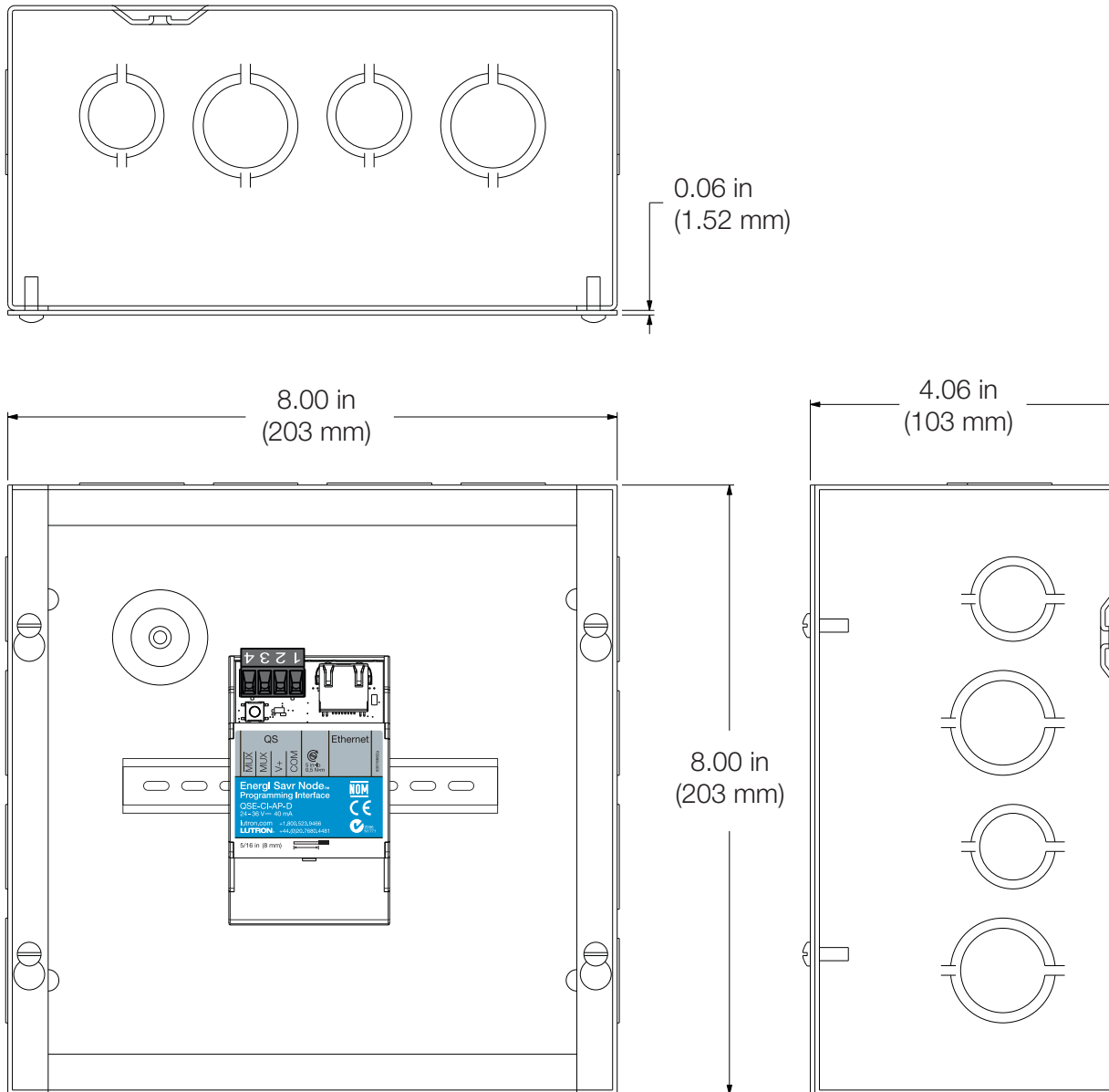
2.4 in (60 mm)



2.1 in (53 mm)

Job Name:	Model Numbers:
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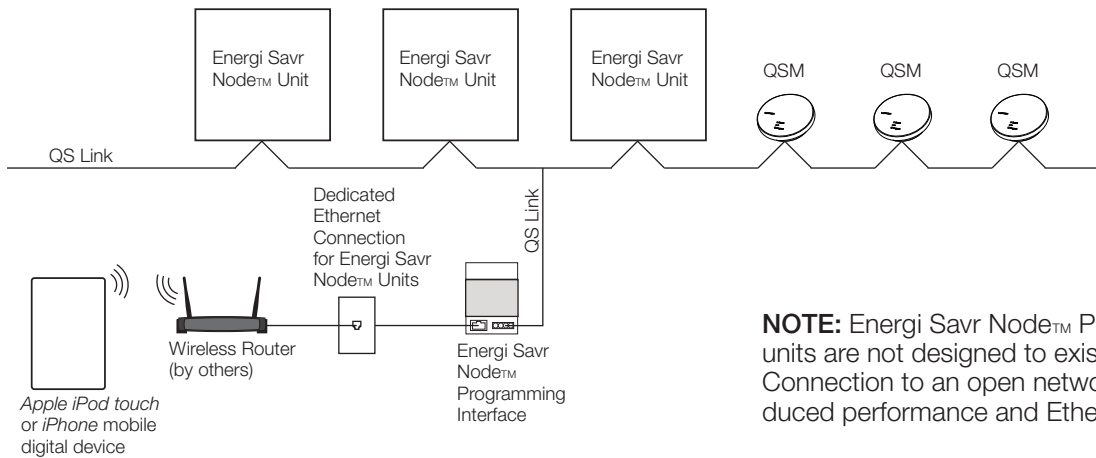
Mechanical Dimensions (using metal enclosure LUT-8X8-ENC)



Job Name:	Model Numbers:
Job Number:	

Programming with Apple iPod touch or iPhone

- Use the intuitive programming application for the Apple iPod touch or iPhone to program systems with multiple Energi Savr Node™™ units and QS Sensor Modules (QSMs) on the QS link.



NOTE: Energi Savr Node™™ Programming Interface units are not designed to exist on an open network. Connection to an open network could result in reduced performance and Ethernet connectivity issues.

Features unlocked by programming application and interface

- Sensors and controls can be shared between Energi Savr Node™™ units on the QS link (SELV/PELV/NEC® Class 2 Dry Contact Switch inputs cannot be shared between Energi Savr Node™™ units on the QS link)
- Associate multiple QSMs to one or more Energi Savr Node™™ units on QS link

Associate up to 100 of each type of input to multiple Energi Savr Node™™ units connected to a single QS link.

- Inputs can be connected to Energi Savr Node™™ units or QSMs

Link input limits:

- 100 wired or wireless occupancy sensors on the QS link
- 100 wired or wireless daylight sensors on the QS link
- 100 wired wallstations or Pico® wireless controllers on the QS link
- 16 wired or wireless daylight sensors on an EcoSystem® link

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Job Number:	