

X96 Ketra Controller

- Used with Ketra's LS0 Lightbar Slim
- 96 W Class 2 power supply
- Clear Connect-Type X wireless communication for easy installation
- Mounts to standard 4 in x 4 in (101 mm x 101 mm) junction box
- Compatible in HomeWorks 21.6 or greater (HomeWorks QSX) and Athena systems



ORDERING GUIDE

Please download this PDF to use the interactive drop down features of the ordering guide.

_____ **X96-** _____ **X-** _____ **J2**
 Product Line Model System Enclosure and Region

Order code: _____

Product Line	Code	System	Code	Enclosure and Region	Code
Commercial (Athena compatible)	CM-	Clear Connect-Type X (CCX)	X-	Junction Box North American (120/277 V~ 60 Hz)	J2¹
Residential (HomeWorks compatible)	HW-				
Model					
96 W Linear Controller	X96-				

¹ X96-X-J2 is the second generation X96 controller and compatible with all LS0 Lightbar Slim High Output and Long Run configurations, and required for Uniform Lens configurations.

SPECIFICATIONS¹

Performance

Input Voltage	120/277 V~ 60 Hz
Output	17-21 V ⁼⁼⁼ 4.6 A, 96 W (max) Class 2
Power Factor	>0.9
Input Current	0.92 A @ 120 V~ 0.40 A @ 277 V~
Thermal Dissipation	41 BTU/hr with full 96 W load
LSO Linear	Uniform Lens 250 lm/ft Max. fixture length 15 ft (4.9 m) Long Run 200 lm/ft Max. fixture length 24 ft (7.3 m) High Output 350 lm/ft Max. fixture length 15 ft (4.9 m) Mixed Lens Types Max. fixture length 15 ft (4.9 m)
Total Run Length	Max. cable length + max. fixture length
Max. number of LSO linear	8 fixture segments (per X96 power feed regardless of length)
Wireless Communication ¹	Clear Connect-Type X.
Emergency Lighting	Lightbar Slim Linear and X96 Controller cannot be used for emergency lighting applications even when using the LVS model LUT-SHUNT-A-TD. Consider other Ketra lighting sources for emergency lighting applications.

Operating Temperature	0-40 °C (32 to 104 °F)
Storage Temperature	-20-80 °C (-4 to 176 °F)
Humidity	0-95%, Non-condensing
Location	UL Damp Location; not for use outdoors
Certification	UL, cUL, FCC Class A 277 V~, FCC Class B 120 V~

Accessories

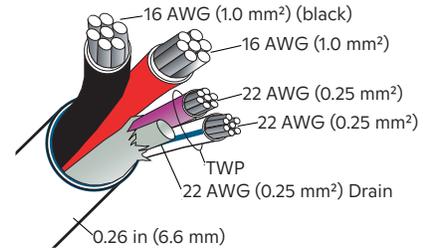
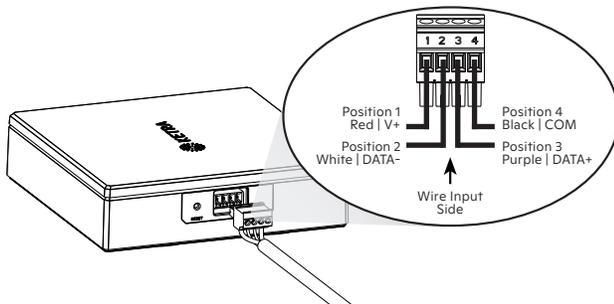
QS 4-conductor cable	QSH-CBLP-M-500, QSH-CBL-M-500 Max. cable length 50 ft (15.24 m) with 16 AWG (1.5 mm ²) power conductors
LSO Wire Adapter Pair	UN-LSO-ADPT-1

Dimensions

Length	5.0 in (127 mm)
Width	5.0 in (127 mm)
Height	1.3 in (33 mm)
Weight	1.0 lb (0.45 kg)

Environmental

CONNECTIONS



- Four conductors:
 - Common – 16 AWG (1.5 mm²)
 - Power – 16 AWG (1.5 mm²)
 - MUX Data – 22 AWG (0.50 mm²)
 - $\overline{\text{MUX}}$ Data – 22 AWG (0.50 mm²)
- Total outer jacket diameter: 0.26 in (6.6 mm)
- Another 4 cable conductor with similar specification can be used
- For complete cable specifications, see P/N 369597 at www.lutron.com
- For plenum applications, QSH-CBLP-M-500 can be used (see P/N 369596 at www.lutron.com). Due to decreased wire gauge of the power conductors in this cable, total maximum cable length is 30 ft (9.14 m)

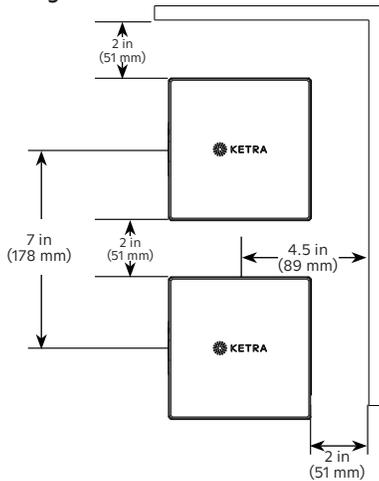
Important Note: The X96 and the N3 satellite are not interchangeable. The N3 satellite cannot be used with an LSO linear and an X96 cannot be used with G2, L31 or L4R linears.

¹ Product includes on-board wireless radio for communications. Do not enclose in a metallic enclosure as it may impact radio performance.

MOUNTING REQUIREMENTS

- The X96 Ketra controller and a Clear Connect Type X device must be mounted within 75 ft (22.9 m) of its assigned gateway. The X96 must have at least two Type X devices within 25 ft (7.5 m). Within a subnet, groups or clusters of Type X devices must not be separated by greater than 25 ft (7.5 m). The gateway and the Type X devices assigned to it must be on the same floor.
- Mount a minimum of 3 ft (1.0 m) away from interference sources in the 2.4 GHz band, including but not limited to microwaves, wireless access points, hotspots, baby monitors, thermostats, and voice recognizing control devices.
- Do not install the controller inside a third-party enclosure. Performance of Type X devices can severely degrade if installed inside metal enclosures.
- A minimum of 2 in (51 mm) of free space is required around each side of the controller (see Figure 1), as well as above the faceplate.

Figure 1

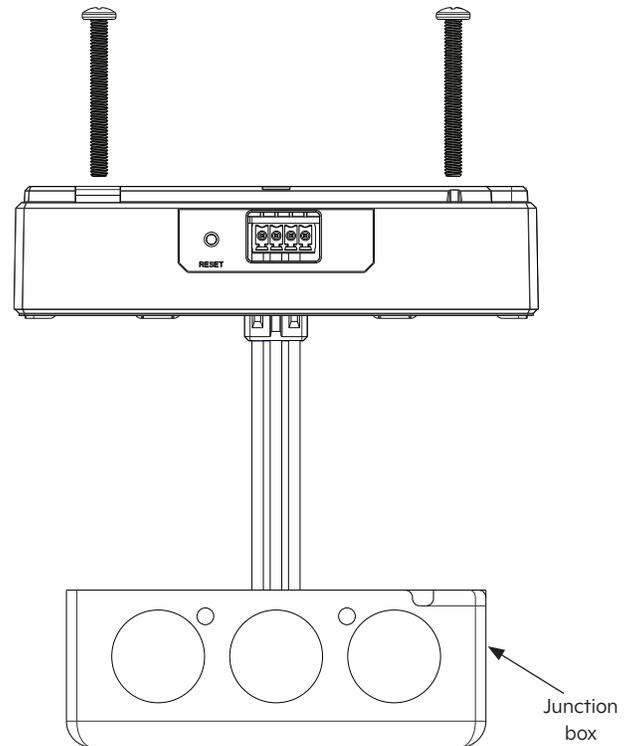
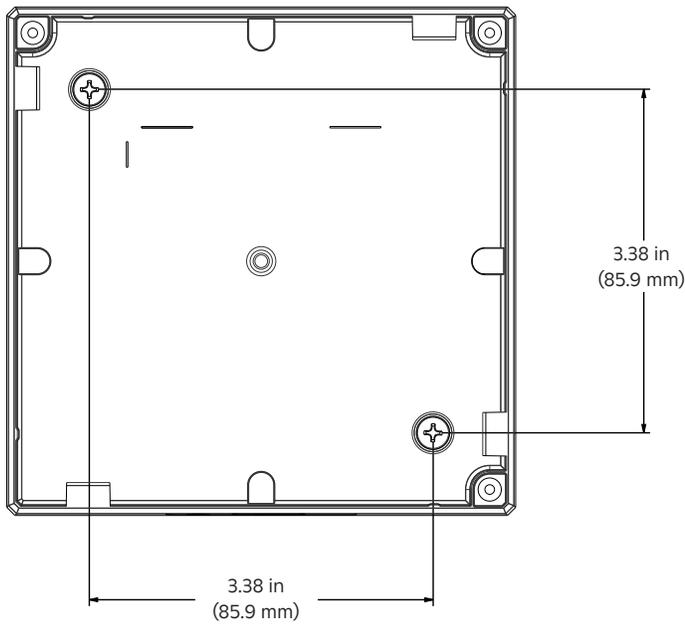
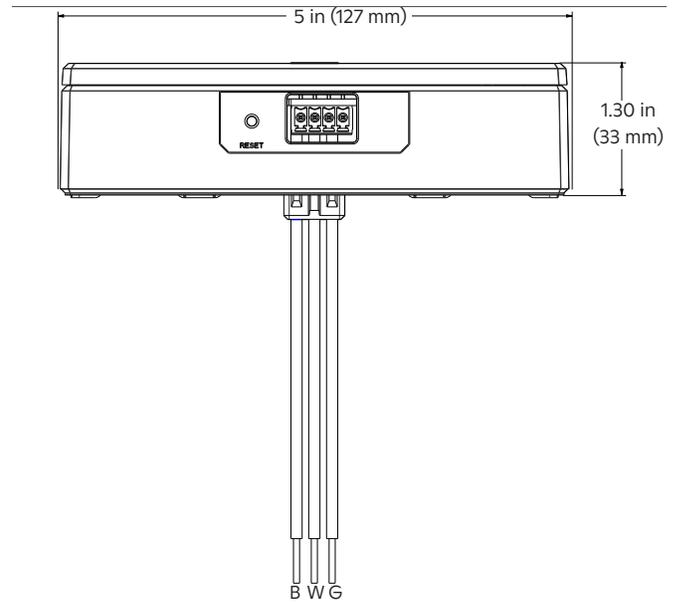
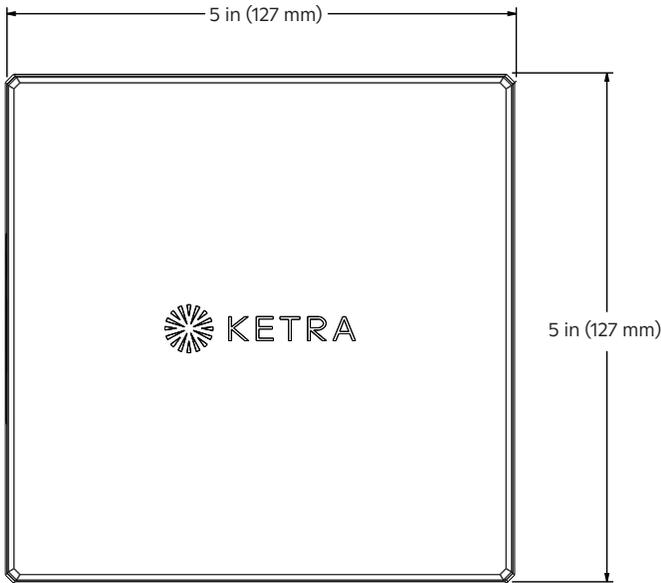




KETRA X96 CONTROLLER

P/N 3662483 Rev G
Specifications are subject to change without notice

PRODUCT DIMENSIONS



Mounts to standard 4 in x 4 in (101 mm x 101 mm) junction box. Junction box not included.



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DIMENSIONS (cont.)

ADAPTER TYPE A

HW-X96-X-J2 ships with an Adapter Type A to connect to the first LSO luminaire.

