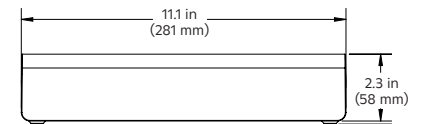# N3 Satellite

PRODUCT DESCRIPTION

Ketra's N3 satellite provides several vital system functions: control of Ketra's linear luminaires, connection to vacancy/occupancy and daylight sensors, and integration of third-party products. The N3's wireless connectivity enables its installation in multiple, convenient locations.

PRODUCT FEATURES

• Control Interface that enables Ketra's G2, L3I and L4R luminaires to join Lutron's wireless network for easy installation

• On-board content storage and astronomical time clock

• Low voltage interface ports for interfacing with occupancy/vacancy and daylight sensors, 0–10 V, contact closure, and DMX devices

5.1 in
(130 mm)

11.1 in
(281 mm)

2.3 in
(58 mm)

SPECIFICATIONS

Optical & Electrical Performance

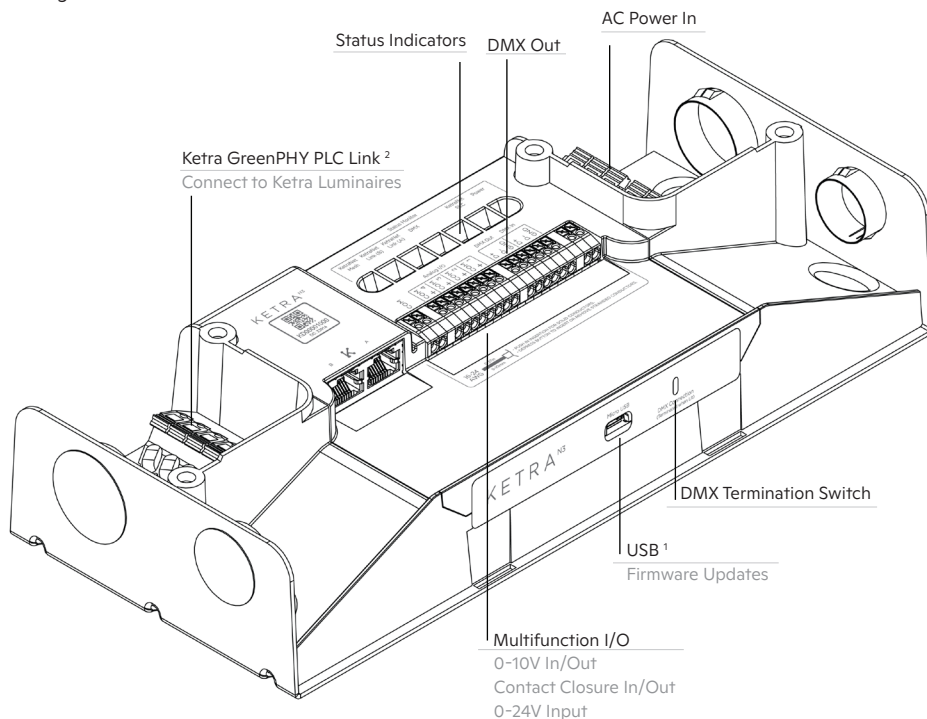|	
Operating Ambient Temperature	**-20 to 50 ˚C**
Storage Temperature	**-20 to 80 ˚C**
Humidity	**0 - 95%, Non-condensing**
Certification	**UL, cUL, FCC Class A, RoHS**
Location	**UL Damp Location, IP20**
Outdoor Use	**Not for use in outdoor applications**
Emergency Lighting	**Evaluated by UL® for use in emergency lighting systems in accordance with standard UL® 924 and CSA C22.2 No. 141 when paired with the LVS™ model LUT-SHUNT-A-TD (UL® file E206507) and any/all Ketra linear fixtures (G2/L3I/L4R). See Lutron Application Note 106 (P/N 048106) at www.lutron.com for wiring details. This is only applicable to CCX fixtures used in an Athena system.**
Max. Number of Linears	**Up to 40 ft (12 m) of luminaires and 100 ft (30 m) total length per N3.**

Mechanical

Weight	**2.93 lbs (1.33 kg)**
Housing Material	**Formed Steel, Polymer**

Power

Load Ratings	**Per Unit: 16 A @ 120 V∼ 60 Hz (20 A de-rated to 80%)**
Power Requirements	**Unit consumes 5 W electrical power Current: 0.041 A @ 120 V∼**

To compute total load, add 5W to sum of all connected luminaire power ratings.

Voltage	**120-277 V∼ 60 Hz**

Enclosure & Connections

Connections (Class 1)

AC Power In (3 Conductor 100-277 V∼ 60Hz)	**10 - 16 AWG (4.0 - 1.0 mm²)**
AC Power Out (4 Conductor)[2]	**Standard Ketra Leader Cable or 10 - 16 AWG (4.0 - 1.0 mm²)**

Connections (Class 2)

Multifunction I/O (4 channels)	**16 - 24 AWG (1.0 - 0.2 mm²)**
Max Voltage per channel:	**30 V⎓**

0-10 V Input/Output	
0-10 V Sinking	
Max Current Per Channel:	**100 mA**
Max Total Current:	**200 mA**
0-10 V Current Sourcing Max Current Per Channel:	**Less than 5 uA**

0-24 V Input	
Voltage Range:	**0 to 24 V**

Contact closure mode	
Maximum output sink current (per channel):	**1.0 A**
Contact closure type for input and output:	**Maintained contact closure only**

Full Universe of DMX Out	
USB Port	**1 - Micro-B USB console port, for firmware updates**

When multiple N3 links are in close proximity, please see the "Lutron Residential and Commercial Systems Rules" spec (P/N 369821) at www.lutron.com

Status Indicators   DMX Out   AC Power In

Ketra GreenPHY PLC Link [2]
Connect to Ketra Luminaires

DMX Termination Switch

USB [1]
Firmware Updates

Multifunction I/O
0-10V In/Out
Contact Closure In/Out
0-24V Input

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

[1] USB port not accessible with cover installed. Allow clearance around product for access after installation.
[2] When the standard Ketra leader cable is not used the output wires should be run in metal conduit or sheathing.

ORDERING GUIDE

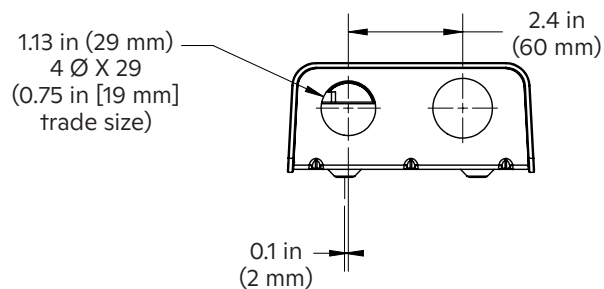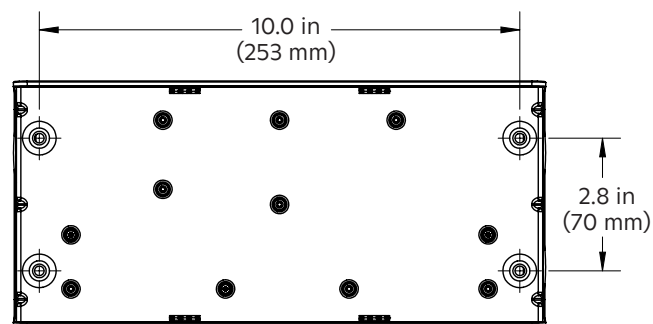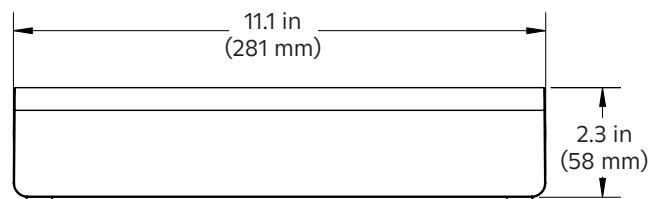Please download this PDF to use the interactive drop down features of the ordering guide.

	N3LTX	**16**		**BK**
Product Line	Model	Region /Voltage	Installation	Housing Color

Order code: _____

Product Line	Code		**Region / Voltage**	Code
Commercial (Athena compatible)	**CM-**		North America, 100-277 V∼ 60 Hz	**16**
Residential (HomeWorks compatible)	**HW-**		**Installation**	
			Recessed Rated Housing	**REC**
Model			Plenum Rated Housing	**PLE**
CCX N3 Satellite Link [1]	**N3LTX**		**Housing Color**	
			Black	**BK**

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[1] CCX stands for Clear Connect Type X.

PRODUCT DIMENSIONS

5.1 in
(130 mm)

11.1 in
(281 mm)

2.3 in
(58 mm)

10.0 in
(253 mm)

2.8 in
(70 mm)

1.13 in (29 mm)
4 Ø X 29
(0.75 in [19 mm]
trade size)

2.4 in
(60 mm)

0.1 in
(2 mm)

ONE LINE DIAGRAM

G2 LEADER CABLE TO G2
DETAIL VIEW

SIGNAL
GROUND
NEUTRAL
LINE

G2 LEADER CABLE
OUTPUT

G2
INPUT

G2 TO G2
DETAIL VIEW

OUTPUT   INPUT

OUT

L1   KETRA N3   G2L   G2   G2

120 V∼ 60 Hz
MAINS SUPPLY

G2J

G2   G2

IN

N3 TO G2 LEADER CABLE
DETAIL VIEW

N3 POWER & SIGNAL
OUTPUT

SIGNAL
GROUND
NEUTRAL
LINE

G2 LEADER CABLE
INPUT

L1   KETRA N3   G2L   G2   G2

120 V∼ 60 Hz
MAINS SUPPLY

G2   G2

STAR TOPOLOGIES ARE NOT SUPPORTED

KEY

L1	12 AWG, 3 WIRE
G2L	KETRA G2 LEADER CABLE
G2J	KETRA G2 JUMPER CABLE