TELECELL: UNIVERSAL STREETLIGHT CONTROLLER

OVERVIEW

Telensa's telecell is the world's most deployed wireless streetlight controller, with a footprint of more than 1.5 million nodes and 7 years of continuous service. No larger than a regular photocell, telecell variants are available for every type of streetlight, including decorative fixtures.

Long range system – non-line-of-sight range up to 10 miles (16km)

Very low power consumption – up to 4x less than mesh networks

GPS plots lights in central management system and in asset management map system

Revenue grade meter system for time-of-use energy consumption



Full coverage – relay function means all lights and street furniture covered

Robust – operates normally and logs activity even when disconnected from the network

Resilient – automatically connects to best available base station, always covered by multiple base stations

NFC chip and smart device app for no-touch provisioning

















		NEMA	Conduit	2-Part	Post Top	480 V Roadway
Regulatory	Standards available	FCC/ETSI/UL	FCC/ETSI	FCC/ETSI/UL	FCC/ETSI/UL	FCC/UL
	Country approvals	Contact Telensa for detail				
	Manufacturing	IS09001 and IS014001	ISO9001 and ISO14001	ISO9001 and ISO14001	ISO9001 and ISO14001	ISO9001 and ISO14001
Radio	Protocol	UNB	UNB	UNB	UNB	UNB
	Supported bands; International:	910.0 – 923.5MHz				
	EU:	868.0 – 869.6MHz	868.0 – 869.6MHz	868.0 – 869.6MHz	868.0 – 869.6MHz	
	Receiver sensitivity (minimum)	-124dBm	-124dBm	-124dBm	-124dBm	-124dBm
	Transmit power (Maximum ERP)	25 – 100mW				
Environmental	IP rating	IP66	IP66	IP66	IP66	IP66
	IK rating	IK07	IK06	IK05	IK07	IK07
	Temperature (°C/ °F)	-40 to +70 / -40 to +158				
Power	Voltage	110V – 277V	110V – 277V	110V – 277V	110V – 277V	347 – 480V
	Consumption	0.85W	0.85W	0.85W	0.85W	
	Switching	10A	10A	10A	10A	5.5A
	Dimming (on-board)	0 – 10v or DALI				
	Surge protection	320VAC 10kA device	320VAC 10kA device	320VAC 10kA device	320VAC 10kA device	550VAC 22kA device
Metering	Accuracy	Revenue grade				
Processing	Metrology engine	Separate 32bit Arm processor	Separate 32bit Arm processo			
	Main application engine	Separate 32bit Arm processor	Separate 32bit Arm processo			
Physical	Connections	5/7 PIN (ANSI C136.41)	5 wire (dimming)	5 wire (dimming)	5/7 PIN (ANSI C136.41)	5/7 PIN (ANSI C136.41)
		3 PIN (ANSI C136.10)	3 wire (on/off only)	3 wire (on/off only)	3 PIN (ANSI C136.10)	3 PIN (ANSI C136.10)
	Dimensions (H x D)	58.6x 86.6mm [2.31 x 3.41"]	58.6x 86.6mm [2.31 x 3.41"]	34 x 89mm [1.34 x 3.5"]	58.6x 86.6mm [2.31 x 3.41"]	113.5x 87.9mm [4.47 x 3.46"]
	Antenna	Internal	Internal	External*	External*	Internal
				(purchased seperately)	(purchased seperately)	
GPS	Receiver type	167 channels				
		L1,C/A code				
	Update rate	40Hz	40Hz	40Hz	40Hz	40Hz
	Acquisition timing	Hot start 1 second TTFF				
		Cold start 29 seconds TTFF				
	Assisted GP	Incl. 3.5 s TTFF / 7 day	Incl. 3.5 s TTFF / 7 day	Incl. 3.5 s TTFF / 7 day	Incl. 3.5 sTTFF / 7 day	Incl. 3.5 s TTFF / 7 day
	Multipath	Supported	Supported	Supported	Supported	Supported
NFC	Read range	15mm	15mm	15mm	15mm	15mm
	Frequency	13.56Mhz	13.56Mhz	13.56Mhz	13.56Mh	13.56Mhz

*External antenna options



Disclaimer: This information is believed to be correct at the date of issue and is subject to change at any time.

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