Smart Downlight 2.0 Quick Start V1.1







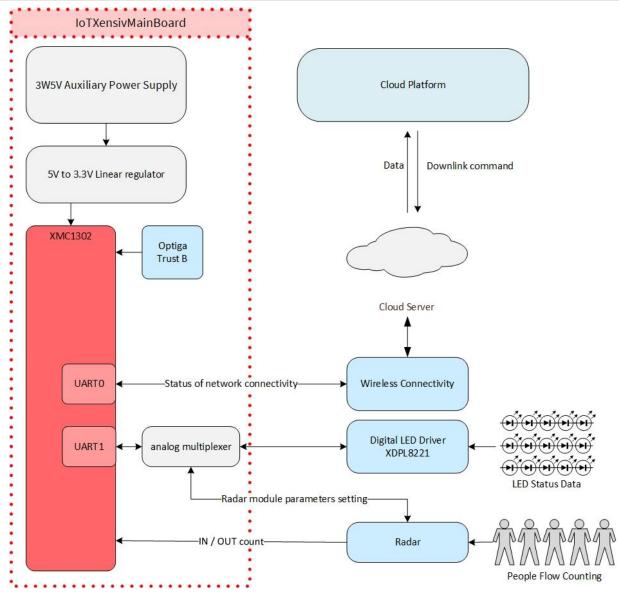
- Block Diagram and Pictures
- 2 Specifications
- 3 Installation
- 4 Connecting to power supply
- IOT XENSIV™ Lighting Platform Portal



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Smart Downlight 2.0 – Block Diagram





Smart Downlight 2.0 – Components



Radar Module

-24Ghz Radar chip: BGT24LTR11

-MCU Cortex M0: XMC1302

LED Driver Board

--Digital LED Driver: XDLP8221 (30V-42V C.C.)

Connectivity Board

-NBIOT Module: Qucetel BC35/95G

-or Sigfox Module: Wilsol WSSFM10R4AT

Main Control Board

-MCU Cortex M0: XMC1302

-Security Chip: OPTIGA™ Trust B

-Aux 5V CoolSET™: ICE3RBR4765JG

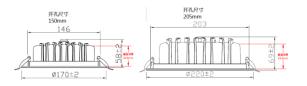


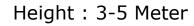
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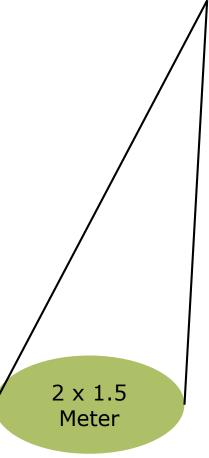


Specifications

Item	Specification	Value
Output	Lux (lm)	1400
	Color Temperature	4000K
	Output Power	20W (Max)
Electrical	Input Voltage	90-264V
	Output Voltage	30-42V
	Output Current	440mA (Programmable)
Dimension	Light Head Diameter Φ *H	170*58 mm or 220*69
	LED Driver	mm 149*74*31mm
People Count	Radar Sensor	24Ghz
	Height	3-5m
	FOV Angle	10x45°
	Detection (@ 3.5 meter)	Width x Depth : 2 x 1.5m
Connectivity	Low Power Wan	NB-IOT
Data Refresh	Frequency	2-10 min
Data Storage	Cloud Server	AWS and China Cloud Server
Security	Optiga™ Trust B	Digital Certificate 163 bit
Cloud / Display	Infineon Web Portal	Device/Data Management
Display	Web Browser	Dashboard
Бюрішу	Web blowsel	Dashiboard







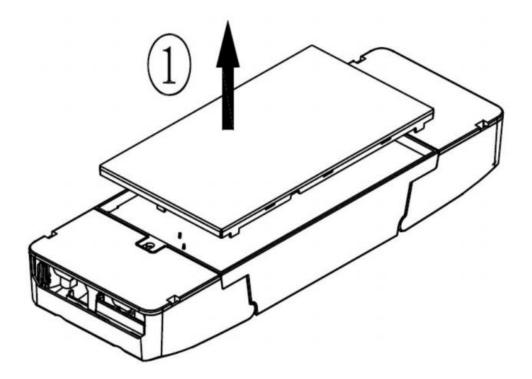


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Installation of SIM Card

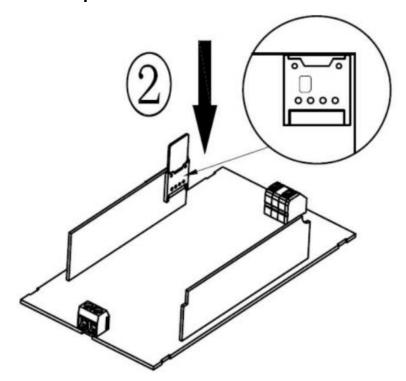
 Step 1: Pry off the back cover of the drive and take out the drive (Use a screwdriver for help if needed).





Installation of SIM Card

Step 2: Insert the NBIOT SIM Card. The SIM card needs to be bought from telecom operator.

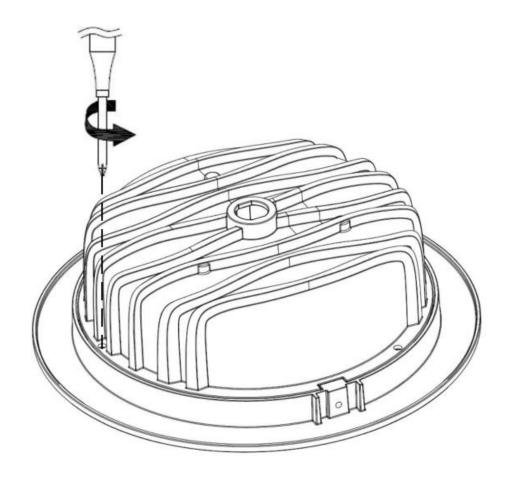


Step 3: Replace the drive and put back the drive back cover.



Installation of Radar Module

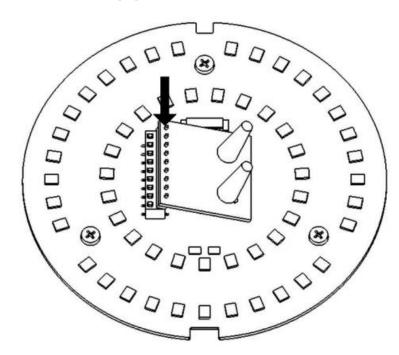
Step 1: Screw out all 4 screws on the back with a screwdriver and remove the back cover.





Installation of Radar Module

Step 2: Insert the radar module on the designated needle arranging seat with the orientation as shown below. Do not put the radar module in the opposite orientation.



Step 3: Put back the back cover and screw in all 4 screws with a screwdriver.



Installation of Radar Module

The light should look like this after installing the radar module:





Installation Locations

Requirements:

Ceiling Height: 3 to 5 meters

Floor Covering Area: 2 x 1.5 square meters @4 meters height

Detected walking distance: ideally 3 meters

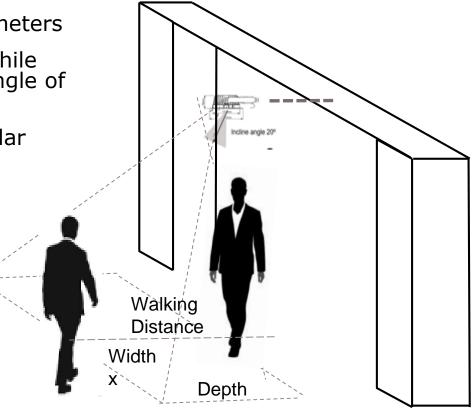
Lamp should be set on a flat ceiling while the radar module should have a tilt angle of 45°

No metal sheet or parts in front of radar module

No moving object, e.g. fan, door,... in detection area

Use cases examples:

- Main entrance
- Indoor



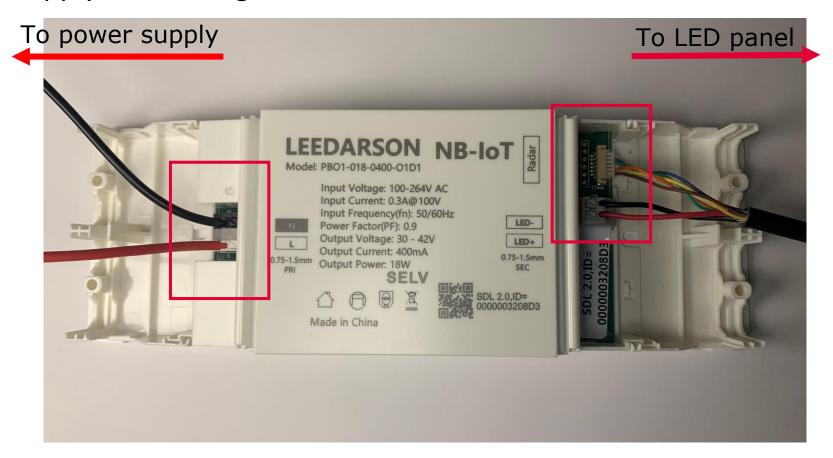


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Connecting to Power Supply

Open the cover at both sides and connect the board to power supply and the light as shown below:





Connecting to Power Supply

Cover back the two covers at the side and the board should look like this after connection:



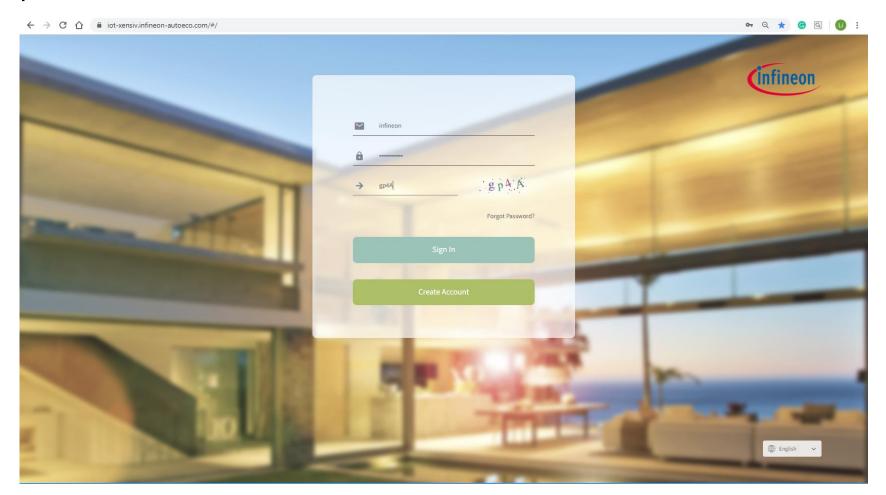


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IOT XENSIV™ Lighting Platform Portal

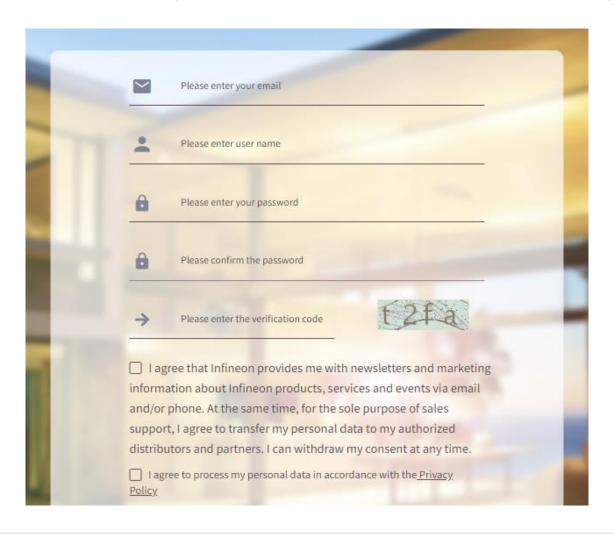
Go to https://links.infineon.cn/ to access the lighting platform portal





Creating an account at the portal

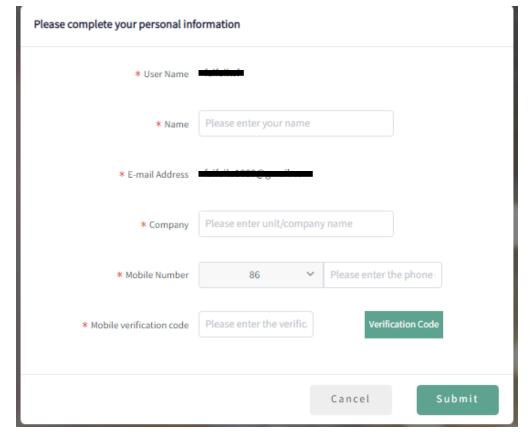
For first time access, please create an account at the portal:





Completing personal information

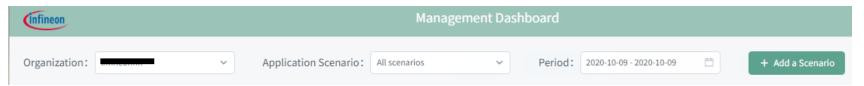
After logging in, you will see a page prompting you to complete your personal information. Please remember to enter your mobile number as well as the verification code sent to your mobile.





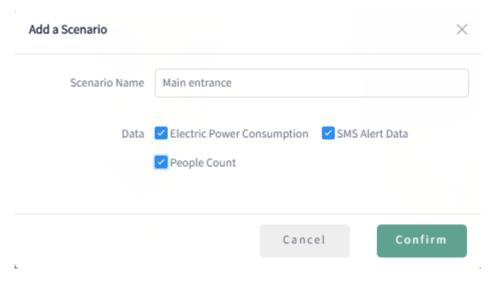
Adding a scenario

Before adding a device, you must add a scenario first (in the Management Dashboard plane), which corresponds to a group of devices:



Then, fill in the details of the scenario:

One example of scenario is te Main Entrance





To add a device in the portal, click the '+Device' button in the Device Management plane:



Then, fill in the details of the new device as prompted:

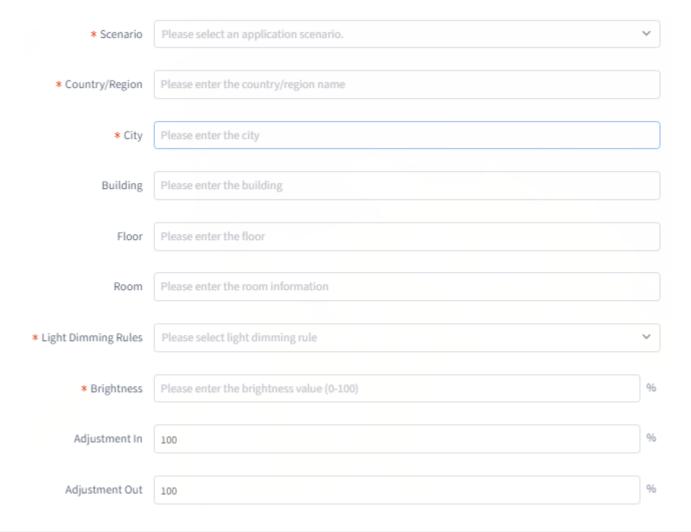


 The device ID can be found on the cover of the main board (please also fill in the 6 zeros at the front)

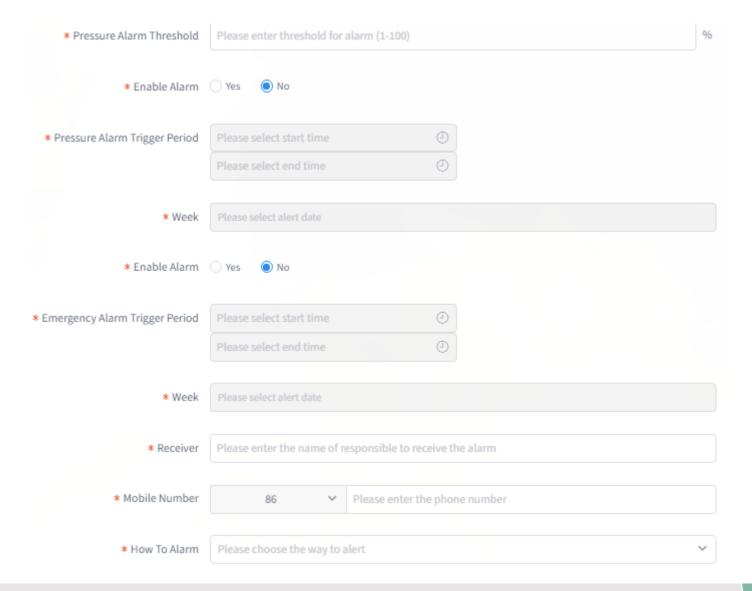
SDL 2.0.ID=



More details to be added for the device:









Radar parameters are also needed to be input to the portal for the radar module:

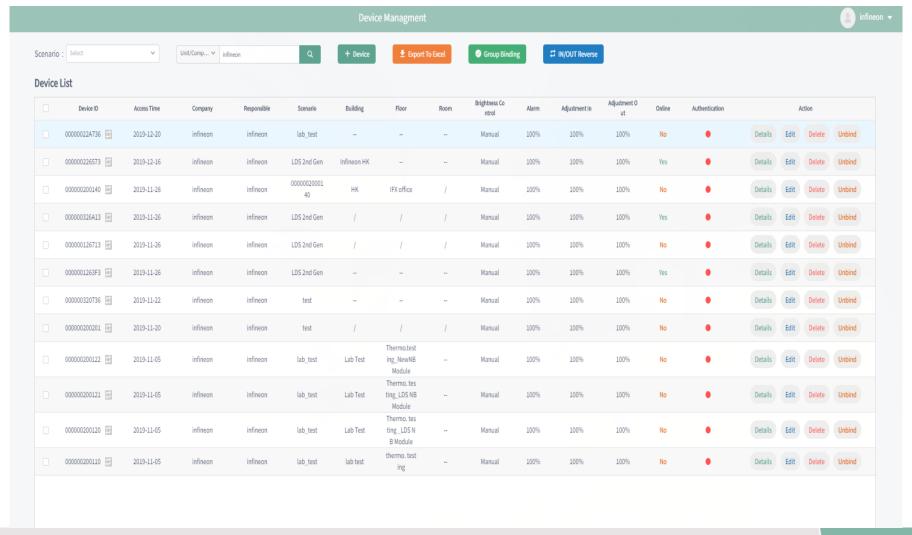
Radar P0 (0x00B0) parameters	5c5a
Radar P1 (0x00B1) parameters	1515
Radar P2 (0x00B2) parameters	8080
Radar P3 (0x00B3) parameters	Please enter the radar P3 (0x00B3) parameters
Radar P4 (0x00B4) parameters	Please enter the radar P4 (0x00B4) parameters
Radar P5 (0x00B5) parameters	0202
Radar P6 (0x00B6) parameters	0303
Radar P7 (0x00B7) parameters	0303

Parameter values are depending on corresponding radar modules, pls check with the radar module specification.



Device Management

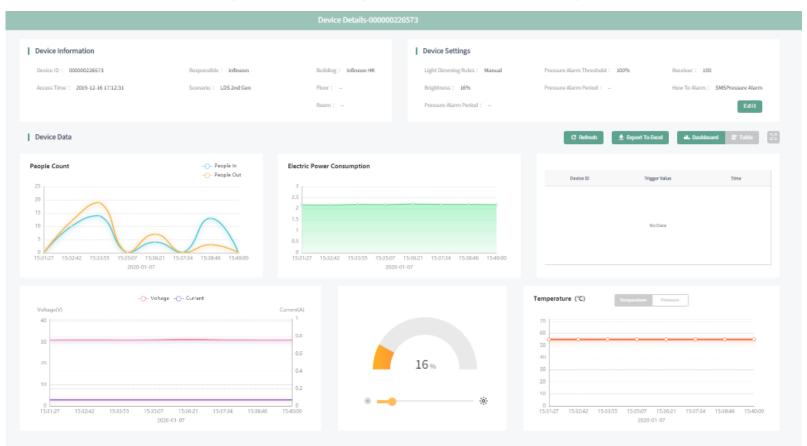
The device management plane after adding different devices:



Device Data Visualization – People Count / LED Control



- After clicking into "Details" of each device, you will be able to view different data of the device (e.g. people count, brightness)
- You can also change the brightness of the light





Device Data Visualization – Scenario View

 In the scenario view, data from multiple devices can be viewed at once for analysis and comparison

