



# SMART POLE SOLUTION

## ECO-SOLUTIONS

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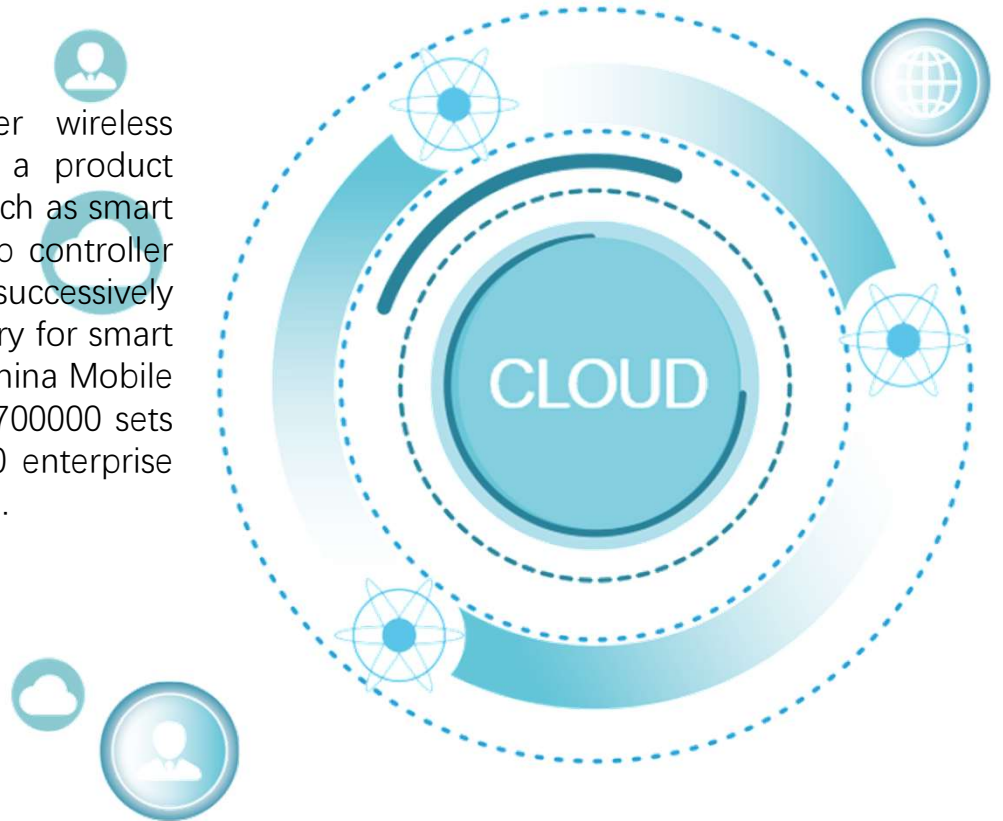
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## A. COMPANY INTRODUCTION

Focusing on ZigBee, NB-IoT, LoRa, 4G and other wireless communication technologies, the company has built a product ecosystem integrating "cloud management edge end" such as smart city management platform, smart lamp pole, street lamp controller and street lamp centralized management. Xinntec has successively obtained the certification of Huawei cloud open laboratory for smart city platform and smart street lamp control system and China Mobile OCP enterprise certification. It has provided more than 700000 sets of lighting system control solutions for more than 5000 enterprise customers from more than 300 cities at home and abroad.





## COMPANY GOAL

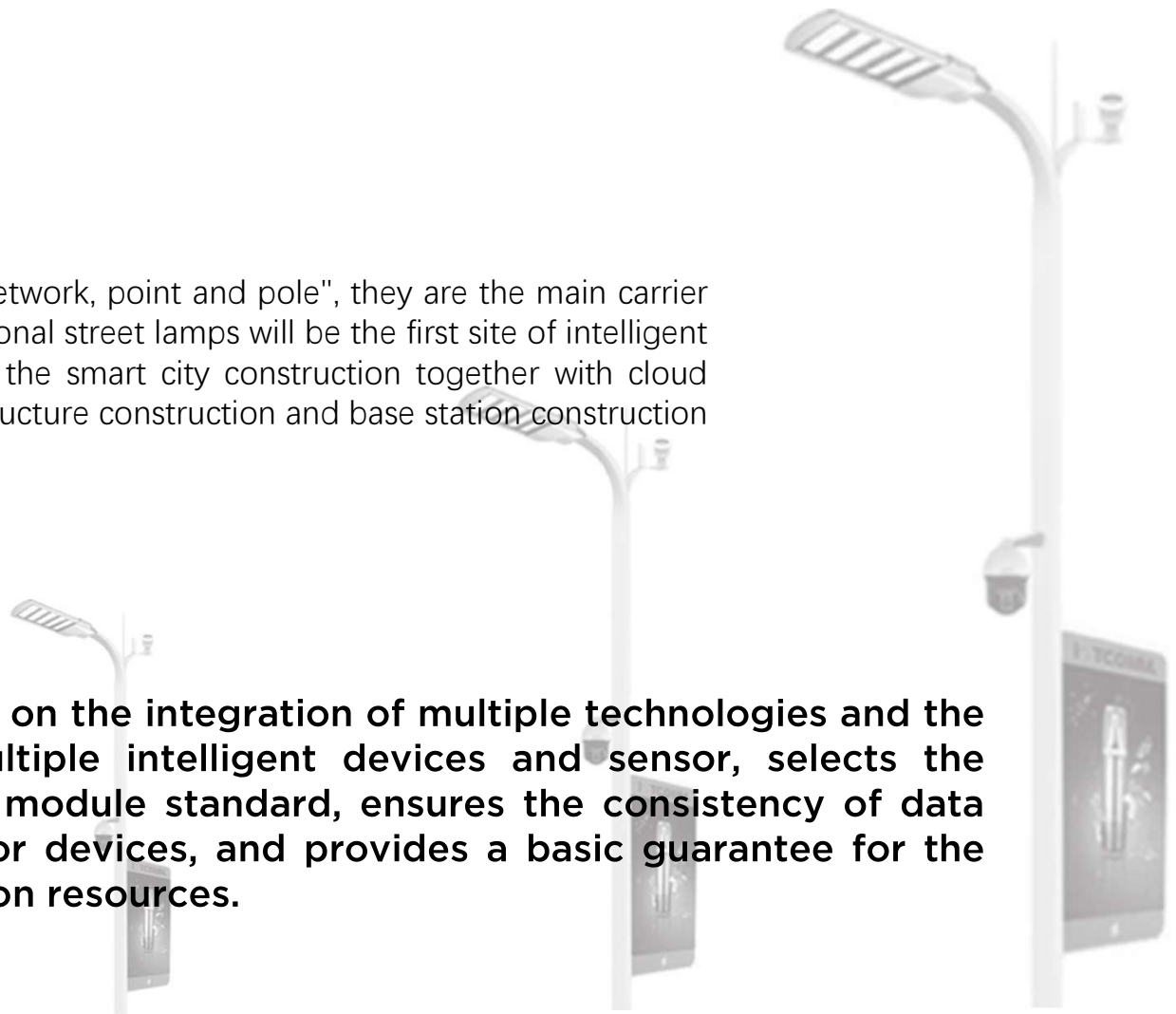
- Create the ultimate products to meet various needs of customers and the market;
- Technical oriented team, serving customers, cooperation and win-win.



## B. PRODUCT PROFILES

As street lamp have the trinity of "network, point and pole", they are the main carrier of smart city. Therefore, multi-functional street lamps will be the first site of intelligent urban transformation, and it builds the smart city construction together with cloud construction, communication infrastructure construction and base station construction

- **Smart street lamp is based on the integration of multiple technologies and the collaborative work of multiple intelligent devices and sensor, selects the variety of communication module standard, ensures the consistency of data collection of various sensor devices, and provides a basic guarantee for the sharing of public information resources.**





## B. CONFIGURATION OF THE SMART POLE

XINNTEC Smart Streetlight Pole integrates LED streetlight, LED screen, video monitor(CCTV), weather detection, SOS emergency calling, Wi-Fi AP, broadcast system and charging pile. With the idea of “Smart Pole Smart City”, it efficiently implements management of urban road lighting, information delivery, security monitoring, emergency alarm, detection of weather quality, EV charging.







## FUNCTION / FEATURES

Seq.	Product Name	Picture	Specification	Functions
	Intelligent Lighting		Power: 200W Lumen: 24000lm; Efficiency: 120lm/W Dimming: 1-10V Dimming Driver: Philips/Meanwell Material: Die-cast Aluminum Surge Protection: 20KV Daylight Sensor	<ul style="list-style-type: none"> <li>- Remotely monitor as users requirements, such as brightness, time policy, etc;</li> <li>- Real-time streetlights status detection;</li> <li>- Fault alarms to the management system;</li> <li>- Zigbee/Lorawan/NB wireless communication.</li> </ul>
	IP Camera Surveillance		Image device: 3million pixels CMOS Imaging Sensor Coding Protocol: H.265, H.264, MJPEG Coding Standard: 3MP(2048x1536) Internet Port: 10M/100M Adaptive Ethernet Interface Light: Intelligent Infrared Light Size: 3-inch Hemisphere Driver: 12Vdc, PoE(Selected, IEEE802.3a) Power: 8W(max.) Protection Grade: IP66	<ul style="list-style-type: none"> <li>- 3 million pixels camera with support of electronic compass, real-time sensing of the direction, position, low angle of camera, and support of Dynamic visual field monitoring;</li> <li>- Embedded intelligent algorithm can be used for various behavior detection, anomaly detection, intelligent identification and statistical analysis;</li> <li>- Remotely monitor the road picture 24 hours through mobile phone or PC</li> </ul>
	LED Display		Dimension: 480x1120mm Pixel Pitch: 5mm Resolution: 96*224 Brightness: >5000cd/m <sup>2</sup> Refresh Rate: 3840Hz Cabinet Size: 520x1520mm Cabinet Material: Galvanized Iron Average Power: 700W Communication: TCP/IP, Wifi, 4G/5G	<ul style="list-style-type: none"> <li>- Government Traffic Guidance or Commercial Advistezement, support many media types, such as video, still image, text, weather info, time, countdown,etc. Public Information;</li> <li>- Timer-based control, automatic dimming;</li> <li>- Remote control of power switch.</li> </ul>
	IP Speaker		Power: 30W Input Voltage: 24Vdc Audio Input Sensitivity: 0.775V Frequency Response: 50Hz-15KHz (±3dB) Dimension: 450x88x83	<ul style="list-style-type: none"> <li>- Public/Commercial Broadcasting</li> </ul>



## FUNCTION / FEATURES

### OPTION DEVICE

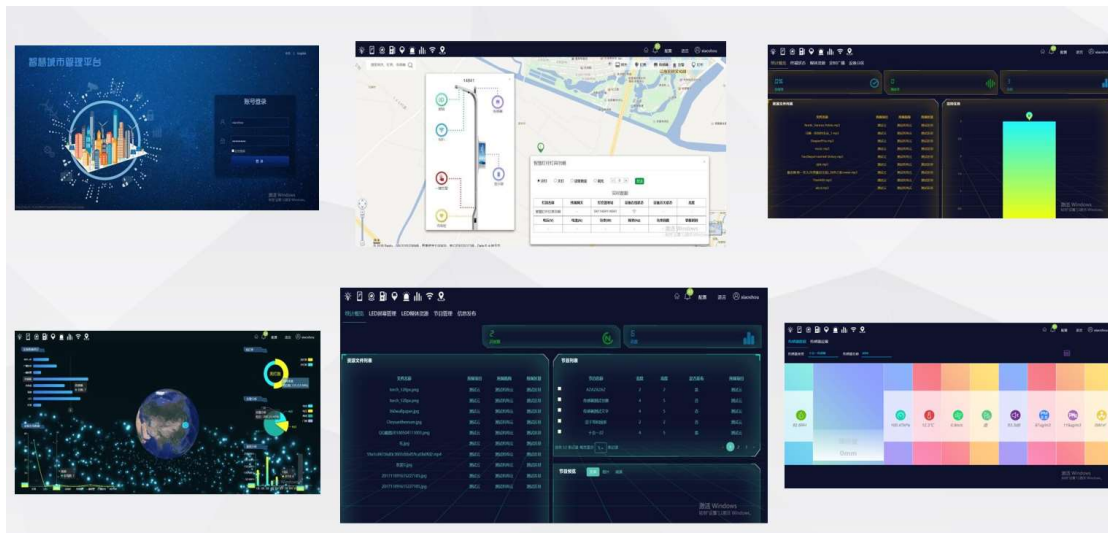
Seq.	Product Name	Picture	Specification	Functions
	Wifi AP		Power: 18W Input Voltage: 48Vdc Communciation: 802.3a, PoE Frequency: 2.4GHz	<ul style="list-style-type: none"><li>- AP support 2.4G /5G signal , offer WIFI hot spot for end users;</li><li>- Every 150M with one AP, one AP with max 200 end users;</li><li>- Optical fiber network access, fast and stable. One AC to Max 60 AP.</li></ul>
	Charging Pile		7.4kw 32A Type 2 Cable Charging Station EV Charging Pile with 5m Cable; Communication: 4G/GPRS/Ethernet; Chargeing Outlet: IEC 62196 Type 2 Socket.	<ul style="list-style-type: none"><li>- Real-time metering and billing function;</li><li>- Pay by card;</li><li>- Over-load protection, short circuit protection, leakage protection, over-voltage and under-voltage protection;</li><li>- Standard Reserved Interfaces;</li><li>- Reserve electrical and network interfaces to facilitate equipment installation;</li><li>- Standard: GBT20234/UL2231/UL294</li></ul>
	Weather Sensor		Power Adapter Measured Parameters: Temperature, Humidity, Air Pressure, Wind Direction, Wind Speed, Rainfall, PM2.5, PM10, Noise(dB) and Radiation; Port: RJ485 Ethernet Device Interface	<ul style="list-style-type: none"><li>- Measure the temperature,air humidity, wind speed, wind direction,air pressure, rainfall, air quality and other meteorological factors;</li><li>- 4 in 1, 6 in 1, 10 in 1 model you can choose;</li><li>- Automatically upload the weather information to the server platform, synchronize to the data management platform.</li></ul>





## INTEGRATED MANAGEMENT SOFTWARE

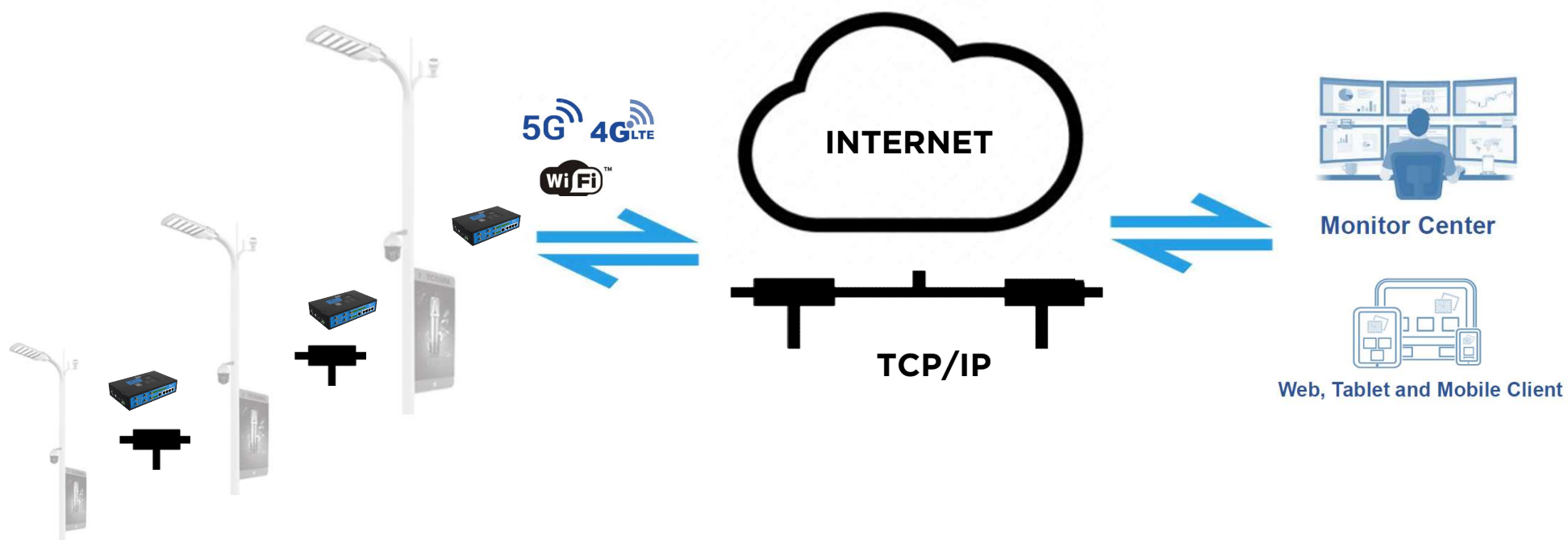
The Smart Pole Management System integrates the management and control of the smart pole devices, such as intelligent light, LED Display, IP speaker, IP camera and Wifi AP, etc. All smart poles can communicate with the control room through the internet or Ethernet network. This software platform is open platform, we provide a API interface to the 3<sup>rd</sup> party to work with it.







## NETWORK INFRASTRUCTURE





**END**

