Universal Intelligent Node for Street Lights
CityIQ: Transform lighting network into digital infrastructure

These intelligent nodes can see, hear and feel the heartbeat of a city. The node connects city officials and citizens to real-time data, allowing for endless applications. From optimized parking and traffic to enhanced public safety and environmental monitoring, this IoT platform can improve the quality of life in your city, today and tomorrow. CityIQ’s aesthetics offer seamless integration into all streetscapes by attaching to any light pole and providing power to any light fixture.

HORIZONTAL NODE: FOR AREA OR ROADWAY LIGHT POLES

MECHANICAL
Max Weight: 30 lbs (not including the arm bracket or light fixture)
Ingress Protection: IP65 lower housing compartment
Max Weight of the Luminaire: 30 lbs
Luminaire Mounting: 1.66” to 2” slipfitter arm
EPA: 0.97 ft² (0.09 m²)

DIMENSIONAL DRAWING
Note: All dimensions are in inches (not including fixture mount bracket)

Other example of street light connection.
UNIVERSAL INTELLIGENT NODE SPECIFICATIONS

ELECTRICAL
Input/Output Voltage: 120 – 277V and 480V
Frequency: 50/60 Hz
Max Power: <30W (excluding auxiliary devices connected to PoE port)
Minimum Surge Withstand Capability: 20kV
Average Power: 25W
Metering: Utility-grade energy meter

TEMPERATURE
Operating Range: -40 C to +40 C

COMMUNICATIONS
• Node to Access Point: Wi-Fi: 802.11 a/b/g/n
• Cellular LTE
• Ethernet

PLATFORM
Scalable: Endless metadata streams available
Cybersecurity: AES Encryption and Certificate-Based Authentication
Open: Supports third-party app development using APIs

CAMERAS
Color Cameras:
Resolution: 1080p (1080x1960) per camera
Quantity: up to 3 colors

Machine Analytics Cameras:
Resolution: QVGA+

REGULATION
• cUL
• FCC

EXTERNAL SENSORS COMMUNICATION
• Wi-Fi
• Bluetooth
• BLE
• PoE

ENVIRONMENTAL SENSORS
• Temperature
• Pressure
• Lightning
• Compass
• Humidity
• Vibration
• Noise/Acoustic
• Camera

STORAGE
Local Hard Drive: 512GB SSD

EXPANSION PORTS:
Power: Power over Ethernet

MAINTENANCE AND UPGRADES
Maintenance Service: Available
Software Upgrades: Over the air

INTENDED APPLICATIONS
• Parking Optimization
• Monitoring & Surveillance
• Traffic Optimization
• Environmental Monitoring
• Public Safety
• Pedestrian Planning & Safety
• Gunshot Detection
Contact GE for a list of premier partner applications.

OTHER
• No externally visible cameras
• No externally visible wiring for power or controls
• Ability to remotely adjust camera orientation
• Camera field-of-view protection for cold temperatures
• Public Wi-Fi: Contact GE for public Wi-Fi expansion capabilities

For more information about intelligent street lights, visit currentbyge.com/intelligentcities.

Preliminary – Subject to Change
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VERTICAL NODE: FOR DECORATIVE POST TOP OR TEAR DROP LIGHT POLES

MECHANICAL
Max Weight: 35 lbs
Ingress Protection: IP65

Max Weight of the Luminaire: 35 lbs
Luminaire Mounting: 3” diameter x 3” long tenon (76mm x 76mm)
EPA: 0.933 ft² (0.087 m²)

DIMENSIONAL DRAWING
Note: All dimensions are in inches

Other examples of decorative street light connection

Preliminary – Subject to Change
## UNIVERSAL INTELLIGENT NODE SPECIFICATIONS

### ELECTRICAL
- **Input/Output Voltage:** 120 – 277V and 480V
- **Frequency:** 50/60 Hz
- **Max Power:** <30W (excluding auxiliary devices connected to PoE port)
- **Minimum Surge Withstand Capability:** 20kV
- **Average Power:** 25W
- **Metering:** Utility-grade energy meter

### TEMPERATURE
- **Operating Range:** -40°C to +40°C

### COMMUNICATIONS
- **Node to Access Point:** Wi-Fi: 802.11 a/b/g/n
- **Cellular LTE**
- **Ethernet**

### PLATFORM
- **Scalable:** Endless metadata streams available
- **Cybersecurity:** AES Encryption and Certificate-Based Authentication
- **Open:** Supports third-party app development using APIs

### CAMERAS
- **Color Cameras:**
  - **Resolution:** 1080p (1080x1960) per camera
  - **Quantity:** up to 3 colors
- **Machine Analytics Cameras:**
  - **Resolution:** QVGA+

### REGULATION
- **cUL**
- **FCC**

### EXTERNAL SENSORS COMMUNICATION
- **Wi-Fi**
- **Bluetooth**
- **BLE**
- **PoE**

### ENVIRONMENTAL SENSORS
- **Temperature**
- **Pressure**
- **Lightning**
- **Compass**
- **Humidity**
- **Vibration**
- **Noise/Acoustic**
- **Camera**

### STORAGE
- **Local Hard Drive:** 512GB SSD

### EXPANSION PORTS:
- **Power:** Power over Ethernet

### MAINTENANCE AND UPGRADES
- **Maintenance Service:** Available
- **Software Upgrades:** Over the air

### INTENDED APPLICATIONS
- **Parking Optimization**
- **Monitoring & Surveillance**
- **Traffic Optimization**
- **Environmental Monitoring**
- **Public Safety**
- **Pedestrian Planning & Safety**
- **Gunshot Detection**

### OTHER
- **No externally visible cameras**
- **No externally visible wiring for power or controls**
- **Ability to remotely adjust camera orientation**
- **Camera field-of-view protection for cold temperatures**
- **Public Wi-Fi:** Contact GE for public Wi-Fi expansion capabilities

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