Knightsbridge
Wireless Communications

KWC NEP Module

NETWORK EDGE POINT for the Industrial IoT

- Autonomous Configuration
  - Easy to Integrate
    - Designed for Customization

FEATURES

- UHF/VHF; GSM; ISM; Blue-Tooth Wireless Communications
- GNSS Precision Receiver (GPS / GLONAS)
- API Module
- Non-line-of-sight Long Range Communication
- Accelerometer, Gyroscope, Temperature + any Tailored "Smart" Sensing via Blue-Tooth.
- Peer-to-Peer Communication
- Autonomous Remote Sensing Report

TYPICAL APPLICATIONS

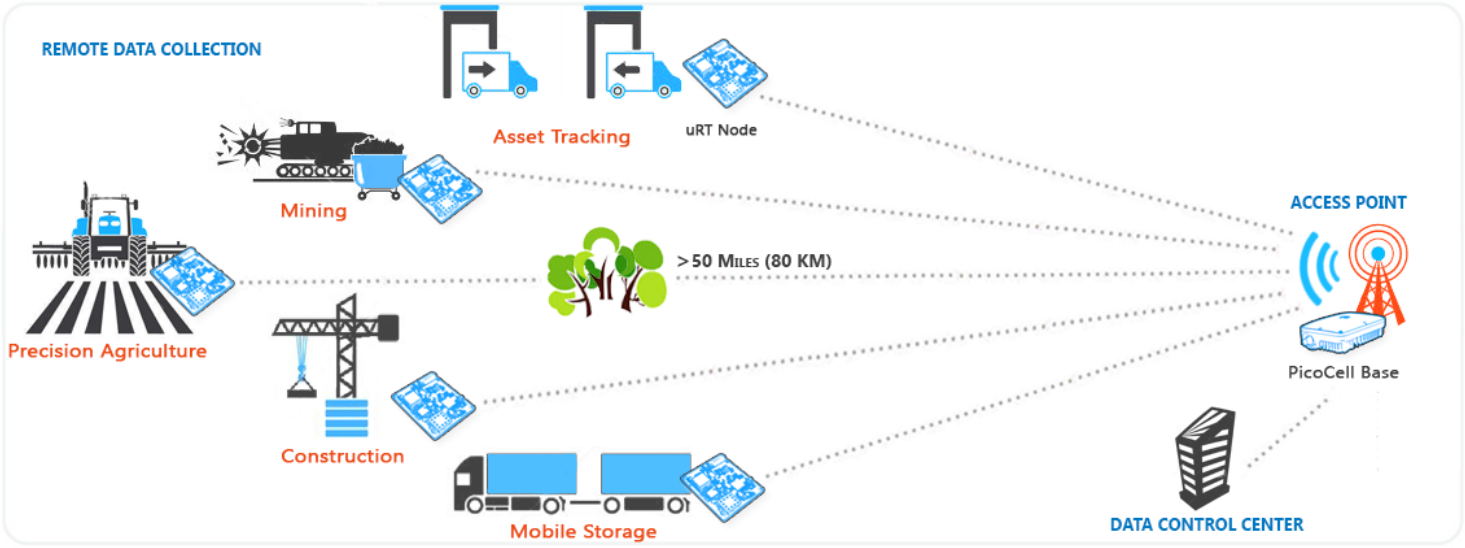
- Machine To Machine –M2M
- Smart Farm/Cattle Monitoring
- Work Force Safety
- Wild Life Monitoring
- Health – Wearable devices
- Military & Defense (Unmanned-Aerial-Vehicle)
- Vehicle Monitoring – OBD2
- Asset Monitoring

NEP - The Ultimate M2M & IIoT System with Long-range Wireless Solution

KWC's Network Edge Point (NEP) combines various wireless technologies and "smart" sensors to provide wide area networking solutions for any of your Industrial remote sensing and monitoring network.

NEP with its wide area communication devices is built on a unique hardware/software platform providing "turn-Key" solution to the industrial IoT (IIoT) and M2M applications. Various on-board, wired or wireless Sensors allow continuous monitoring and reporting of location, temperature, acceleration, motion, strain, pressure, heartbeat, stress, and many mechanical and environmental sensing conditions. Depending on specific application requirement of NEP, customized sensors could be integrated to the main printed circuit board (motherboard) of the module. The policy based network management system defines the context and policies, determining NEP's operational behavior on the entire cluster or specifically selected group of NEPs in the field.

NEPModuleApplication & Specifications



Environmentals

- -40° to +60° C (-40° to +149° F) Operating Temperature (Transmitter)
- -55° to +85° C (-67° to +185° F) Operating Temperature (Reciever)
- -55° to +85° C (-67° to +185° F) Storage Temperature Range
- Operating Humidity: MIL-STD-810F Method 507.4-1

User Interfaces

- Proprietary Command Line Interface

Wireless Link Specs	
Frequency Bands	850 MHz – 928 MHz (ISM Band)
	150 MHz – 470 MHz (UHF Band)
Wireless Capability	GSM, CDMA
Blue-Tooth	BLE

Mechanical and Power Specs	
Dimensions	Circular Diameter: 70mm Height: 50mm
Weight	Varies From Options
Input Voltage	9 – 48 Vdc
Power Connector	RJ45 (Water & Dustproof)
Power Source	Internal Rechargeable Battery (5.2 A/H)
Antenna Connectors	50 Ω, SMA Female (Water & Dustproof)

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