WellComm is the remote communication modular IoT device that provides fully configurable and secure access to real-time data from remote oilfield wellsite(s) and gathering stations located on land or offshore across the globe. It provides 24x7 access to the remote assets via satellite, cellular or Ethernet connections to the proprietary Digital Oilfield platform for well operations deployed on cloud or private network. This device can also be configured and connected to any third-party platform.

APPLICATIONS

- Real-time data acquisition and transmission from remote wells
- Remote control of devices and wells

BENEFITS

- Ensures safe operations and delivers operational excellence
- Optimizes power consumption
- Enhances well performance and maximizes production
- Delivers transparent asset governance
- Minimizes deferred production
- Eases asset handling operations as real-time data is available
- Monitors and optimizes pump performance proactively
- Reduced time and costs with minimal maintenance requirements
- Minimizes downtime, operating costs, risks, physical inspections, or operator errors at the asset site
- Reduces operating costs with remote monitoring, equipment protection, and onsite automation
FEATURES

- Remote asset-monitoring and management
- Inventory management
- Well production management
- Alert messaging and event detection
- Onsite and remote configuration, provisioning, and commissioning of the IoT devices
**SPECIFICATIONS**

**Gateway Interface**
Protocol: Modbus-RTU Master, Modbus-TCP Master
Data Rate: 9600 bps to 12 Mbps
Connector: Terminal Block Screw Type
Isolation: 2kV (Built-in)

**Software**
Configuration: Cloud Configuration via Web browser, Android App, iOS App
Web Browser Support: Firefox, Chrome, Safari, Opera
OS Support: Windows, Linux, OSx, Android, iOS
Mobile Support: Android, iOS via App

**Physical Characteristics**
Housing: Fiber Reinforced Plastic, IP 65 / Metal, IP30
Weight: 500g (1.10 lbs)
Dimensions: 36 x 105 x 140 mm (1.42 x 4.14 x 5.51 in)

**Environmental Limits**
Operating Temperature: -40 to 75oC (-40 to 157oF)
Storage Temperature: -40 to 85oC (-40 to 185oF)
Relative Humidity: 5 to 95% (non-condensing)
Vibration: IEC 60068-2-16, IEC 60068-2-64
Shock: IEC 60068-2-27
Drop: IEC 60068-2-32

**Power Requirements**
Input Voltage: 9 - 48 VDC
Input Current: 365mA @9VDC
Connector: Terminal Block Screw Type

**Wi-Fi Support**
Frequency Range: 2.4 – 5 GHz
Network Standard: IEEE 802.11 b/g/n
Range: 70-250m (230-820ft)
Antenna: MIMO Built-in, Ext. SMA Female

**Internal Power Back Up**
Backup Type: SuperCap
Duration: 5 mins
No. of cycles: 500,000
Safety: Environment-friendly

**Standards and Certifications**
Safety: UL 60950-1, EN 60950-1
Hazardous Location: Class 1 Division 2, ATEX, IECEX
EMC: EN 55032/24
EMI: CISPR 32, FCC Part 15B Class A
EMS:
IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV
IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m
IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV
IEC 61000-4-5 Surge: Power: 2 kV
IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m
IEC 61000-4-8 PFMF (non-condensing)
Vibration: IEC 60068-2-16, IEC 60068-2-64
Shock: IEC 60068-2-27
Drop: IEC 60068-2-32

**Cellular Support**
Frequency Range: Quad-band 850/900/1800/1900 Mhz
Bandwidth: 1.4/3/5/10/15/20 Mhz
GPRS: Class 12
Firmware: FOTA
Antenna: DL MIMO, Supports Rx-diversity

**Satellite Support**
Frequency Range: 1616 to 1626.5 Mhz
Duplexing Method: Time Domain Duplex
Multiplexing Method: TDMA/FDMA
Antenna: Ext. Magnet Mount TNC Connector, dBiC

**Ethernet Support**
Port Speed: 100-1000Mbps
Distance: 100 Meters (UTP), Fiber (SFP Module)
Forwarding Rate: 0.75 Mbps
Indicator: Port Light
Connector: RJ45

**Warranty**
Warranty Period: 2 years
Details: www.kelltontech.com/warranty
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