

# Data Sheet

## WVT Pulse Interface Modem™



### UNIVERSAL MODEM INTERFACE:

The WAVIoT UMI is designed to integrate with all popular sensor and telemetry interfaces.

**M2M COMMUNICATION:** We offer secure, long range, license-free M2M communications for metering and sensing devices through a proprietary network. Making use of this communication system connected devices can operate in any location worldwide, ensuring maximum availability and reliability, whilst greatly simplifying the device installation process.

**BACKEND & ANALYTICS:** Individual meter or sensor data is transmitted over the network to data collection gateways and then relayed to data servers. Data can be made available through the Waviot web backend or to your own application server.

**PLUG & PLAY:** Reader connection through user-friendly connector.

**PLUG & WEB:** Plug in the gateway and start storing data to the Waviot cloud server. A user-friendly web page displays real-time data, trends and statistics.

**POWER AUTONOMY:** Ultra low power consumption enables battery life of 10 years +.

### WAVIoT modem features

- License-exempt ISM radio band
- Proprietary radio protocol WAVIoT Nb-Fi
- Ultra-low power consumption
- A single network with unlimited nodes
- 10-15 miles transmission range in urban environment
- Plug and play installation
- Pulse, ADC and RS-232/485 inputs
- User-friendly web interface and data API

### TECHNICAL SPECIFICATIONS

#### Radio

- Output Power up to 25 dBm
- Budget link 174dBm
- Battery voltage 3.6V
- Reporting on predefined schedule
- Internal memory: 65000 readings
- Real Time Clock to time stamp data

#### Microcontroller

- 8052 core CPU
- 64kB available for user application firmware
- Controller interrupts sleep mode
- 32.768 kHz oscillator
- 10 bit ADC

### MECHANICAL

- Dimensions 170mm x 46mm x 34mm
- Weight – 65 grams
- Flammability UL94 V0 @ 3mm
- Operating temp. range - 40 to 70°C
- Storage temp. range -40 to 75°C
- IP67&NEMA4,4X,12&13
- UV stabilized
- Li-Ion battery or external power