The iButtonLink provides an internal air pressure sensor, internal humidity sensor, internal temperature sensor and 1 temperature sensing point via an external sensor and is part of a family of low power wireless sensors based on the IBM® Low Power Mote Technology.

The iButtonLink Base Mote contains the radio, intelligence, and power supply for a micro sensor network in a single compact package. The Base Mote provides expandability through both internal and external sensor capabilities. External sensors may be connected via two iButtonLink standard low power sensor connectors. Multiple sensors may be daisy chained to each port. Internal sensors may include a pressure sensor or humidity sensor.

The Base Mote uses Dust Radio SmartMesh WirelessHART™ technology for low power radio transmission, which combined with the IBM® Low Power Mote Technology, provides the longest battery life in the industry.

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| --- |
| Key Features  * Long battery life * Mesh radio technology * Flexible expansion * IBM® technology  Why iButtonLink  * Industrial strength design * 100% final test and burn-in * Flexible and responsive |

Table 1 Normal Operating Parameters

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter | Min | Typical | Max | Units | Comments |
| Power input | 2.8 | 3.0 | 3.6 | Volts | Internal battery supply. |
| External Power Connector |  | None |  |  |  |
| Operating Temperature | 0 | 25 | 50 | Degrees C |  |
| Operating Humidity | 20 | 50 | 80 | % RH | Non-condensing |

Table 2 Detailed Specifications

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter | Min | Typical | Max | Units | Comments |
| Battery life | 5 | 7 | 10 | Years | Depends on connected sensors. |
| Radio Frequency | 2.4000 |  | 2.4835 | GHz |  |
| External Ports |  | 2 |  | Ports | Sensors may be daisy chained. |

Table 3Product Details

|  |  |
| --- | --- |
| Part Numbers | E:1T-I:1P1H1T |
| Batteries | Two L91 Energizer “AA” Lithium batteries, field replaceable |
| Dimensions and drawings | <http://www.polycase.com/vm-362> |
| Internal Sensors | Air pressure, humidity, and temperature. |
| External Sensors | One temperature sensor |
| External Actuators | None |
| Flame Rating | UL94-5VA |
| Environmental seals | None. May not be used in high dust or wet environments. |
| Location Awareness | Not included. Gateway must be location enabled. |