



Bluetooth **5** Ready

The World's Smartest Light powered by
The World's Smartest Bluetooth Mesh



Enlightening Things to Enlighten People

The Only Bluetooth® Smart Solution with Connection & Broadcast Based Mesh

- Reliable Connection based mesh to support large data packets
- Fast Broadcast based mesh to support smaller data packets
- Long-range module connectivity up to 120 meters
- Real-time clock for built-in automation capability
- Simple & fast integration with development kits and sample iOS & Android API
- Support for beacon and other location based services
- Auto firmware update from one device to an entire network
- Bluetooth 5.0 Ready (MeshTek-H52)



With the smartest and most robust Bluetooth Mesh Network technology on the market, ilumi's MeshTek provides an elegant, affordable solution for manufacturers looking to quickly and reliably bring connected IoT products to the market.

For more information, email info@ilumisolutions.com.
Download datasheets at www.ilumisolutions.com.



TECHNICAL SPECIFICATIONS



MeshTek-L51

Ultra-Low Power / Std Range (up to 20m)

MeshTek-H51 / MeshTek-H52

High Power / High Range (up to 120m)

Actual Size Comparison



For Battery Powered Devices:

Wearable devices	Sensors
Bluetooth dongle	Remote
Health monitor	

- Simultaneous master and slave operation
- Built in antenna
- 1.8-3.6V operating voltage
- 256kB Flash / 32kB RAM
- Integrated 16MHz Clocks
- Temperature range of -25°C to +75°C
- 12mm X 13mm X 2mm
- 16 GPIOs configurable to UART, SPI, I2C, Analog Inputs & 4 PWM channels
- FCC/IC, CE and BT SIG*

*Certification in progress

For Continuously Powered Devices:

Outlet wall	Smoke alarm
Switch light	Router/Hub
Bulb	Lighting fixture

- Simultaneous master and slave operation
- Built in antenna
- 1.8-3.6V operating voltage
- 256kB Flash / 32kB RAM (H51)
- 512kB Flash / 64kB RAM (H52)
- Integrated 16MHz Clocks
- Temperature range of -40°C to +85°C
- 17mm X 20mm X 2.4mm
- 26 GPIOs configurable to UART, SPI, I2C, Analog Inputs & 4 PWM channels
- FCC/IC, CE and BT SIG certified

DEVELOPMENT KIT

State-of-the-art modular development kits, example codes, SDK, and sample iOS & Android APIs available for developers.

MeshTek H51
(or L51, H52, L52 module)

Breakout Board
with Battery

Development
(Mother Board)

