THE INDUSTRY'S BROADEST IoT BLUETOOTH® MODULE PORTFOLIO

Dual-Mode and BLE-Only Certified Modules

CYPRESS EMBEDDED IN TOMORROW™

FUTURE ELECTRONICS

SMART HOME
Lighting, Mesh, E-Locks

Features Needed

Bluetooth Mesh enabled

Extended temperature for lighting applications to tolerate their ambient heat

Long-range capabilities to enable robust connection to other Bluetooth devices throughout home, on different floors, etc.

Module Recommendations	Reasoning
CYBT-343026-01	Mesh Support; Long-Range; Dual-Mode Bluetooth 5.0
CYBLE-224116-01	Long-Range, Extended Temperature BT 4.2 Security
CYBLE-224110-00	Long-Range, Extended Temperature
CYBLE-212006-01	Long Range; PCB Antenna

INDUSTRIAL
Remote Display, Maintenance, Cable Replacement

Features Needed

Long-range to avoid multi-path fading from busy factory environment

External antenna support

Secure Bluetooth encryption to ensure industrial IoT data is not compromised

Module Recommendations	Reasoning
CYBT-343026-01	Long-Range; Dual-Mode Bluetooth 5.0
CYBLE-202007-01	Long-Range; Ext Antenna w/ u.FL
CYBLE-212006-01	Long-Range; PCB Antenna
CYBLE-202013-11	Long-Range; Ext Antenna w/ RF Pad
CYBLE-013025-00	Simple Connectivity; Regular Range

MEDICAL, HEALTH, & FITNESS
Activity, HR, Speed, Smart Watches

Features Needed

Small form factor

Secure Bluetooth encryption to ensure health/fitness data is not compromised

High data throughput for medical sensor data wireless transfer

CapSense® capacitive touch for user-friendly interfaces

Module Recommendations	Reasoning
CYBLE-222014-01	Smallest Form Factor, BT 4.2 Security
CYBLE-214015-01	Small Form Factor, BT 4.2 Security, More I/Os
CYBLE-022001-00	Smallest Form Factor
CYBLE-212020-01	Cost-Optimized, BT 4.2 Security

BEACONS, TAGS, & HID
Indoor positioning, Asset Tracking, HID

Features Needed

Small form factor for tiny beacons/tags applications

Extended range for robust long-distance connections with assets

Cost-optimized for HID

Module Recommendations	Reasoning
CYBLE-022001-00	Smallest Form Factor
CYBLE-014008-00	Small Form Factor
CYBLE-012011-00	Cost-Optimized
CYBLE-212006-01	Long-Range; PCB Antenna

TOYS & ACCESSORIES
RC Toys, Toothbrushes, Drones

Features Needed

Cost-optimized to enable competitive BOM prices

Small form factor to fit into limited internal hardware of smaller toys/accessories

Module Recommendations	Reasoning
CYBLE-013025-00	Cost-Optimized
CYBLE-012011-00	Cost-Optimized, More I/Os
CYBLE-022001-00	Smallest Form Factor

For more information, please visit www.cypress.com/bluetooth_modules