BLUE RIDGE TECHNOLOGIES™
UNIFIED LIGHTING CONTROL

Tech Kit 2.0

Overview
Tech Kit 2.0 (TK-2.0) includes all components for USB and Bluetooth wireless configuration of the Aperio Open Control Platform. TK-2.0 facilitates Controller Board setup, programing, firmware updates, and firmware restoration. The kit features Blue Ridge Technologies Essentials (BRT Essentials) software on a 1GB flash drive, a Bluetooth Dongle, a Bluetooth Module, a 12'(3.66m) Tech Cable (TC), a screwdriver, and a Carry Bag.

Features
Configures RI, RK, RP, ZC and CANbus components:
    Satellite
    Capacitive Touch Station (CTS)
USB and Bluetooth wireless communication
Complete BRT Essentials software

Warranty
Two (2) year limited manufacturer warranty from date of shipment (extended warranty optional)

Computer Requirements
    Operating System: Windows 7 (32/64-bit)
    Bluetooth: Microsoft Bluetooth Stack
    USB: Standard-A USB 2.0 port

Flash Drive Specifications
Capacity: 1GB
Contents:
    BRT Essentials software
    BRT Essentials Template Files
    USB Drivers
    Supporting Documents

Bluetooth Specifications
Dongle Connection
    Hardware: Standard-A USB port on computer
    Wireless: Supports multiple device connections
Module Connection
    Hardware: Bluetooth Plug on Controller Board
    Wireless: PTP connection
Wireless Type: Bluetooth v2.0+EDR Class 1
Wireless Range: Open air 328' (100m)
Wireless Compatibility: BRT Essentials software (API available from Blue Ridge for interface development)

Tech Cable Specifications
Type: USB 2.0
Dimensions: 12'(3.66m)L
Computer Connection: Standard-A USB port
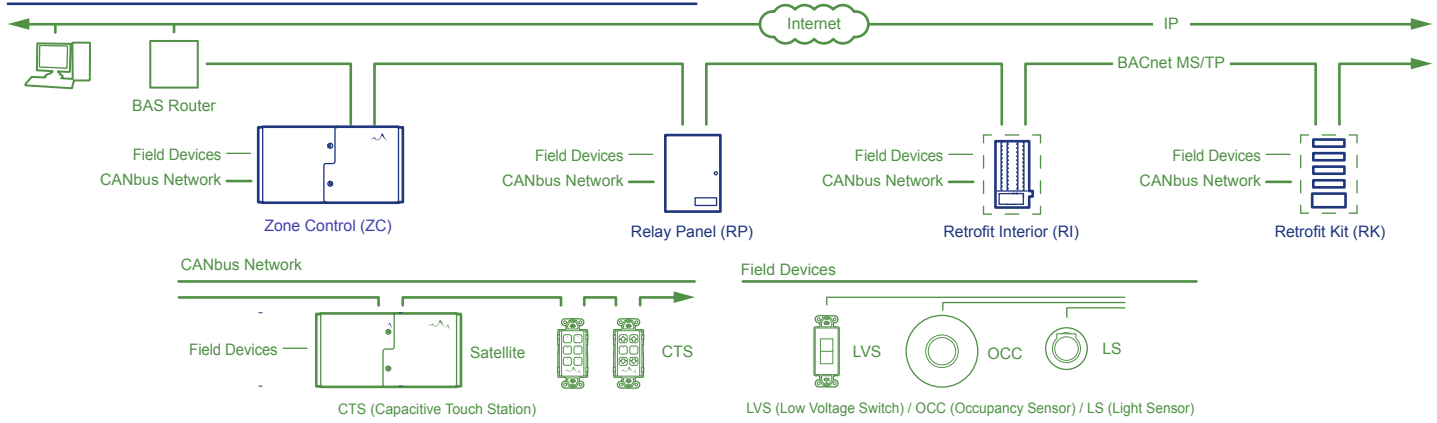Controller Board Connection: Micro-B USB port

Accessory Specifications
Screwdriver
    Type: 0.4 x 2.5mm slot head
Carry Bag
    Type: Flat cloth with zipper closure
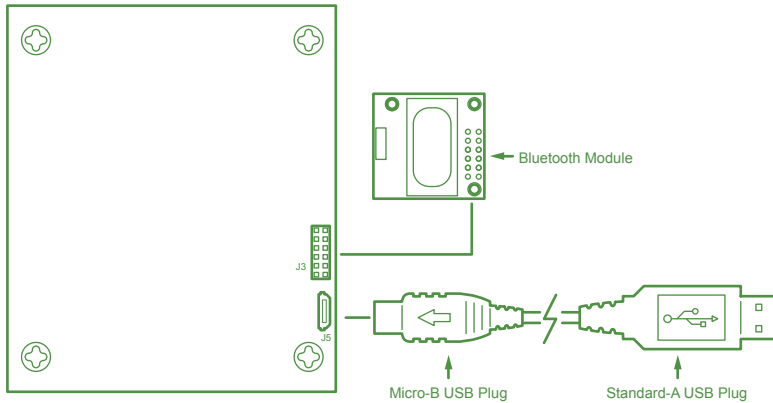   Dimensions: 7.25"(184mm)H x 9.50"(241mm)W

General Architecture

Internet

IP

BACnet MS/TP

BAS Router

Field Devices
CANbus Network

Zone Control (ZC)

Field Devices
CANbus Network

Relay Panel (RP)

Field Devices
CANbus Network

Retrofit Interior (RI)

Field Devices
CANbus Network

Retrofit Kit (RK)

CANbus Network

Field Devices

Field Devices

Satellite

CTS

CTS (Capacitive Touch Station)

LVS

OCC

LS

LVS (Low Voltage Switch) / OCC (Occupancy Sensor) / LS (Light Sensor)

Controller Board Terminations (ZC)

Bluetooth Module

J3

J5

Micro-B USB Plug

Standard-A USB Plug

Controller Board Terminations (RI / RK / RP)

Standard-A USB Plug

Micro-B USB Plug

J1

Bluetooth Module
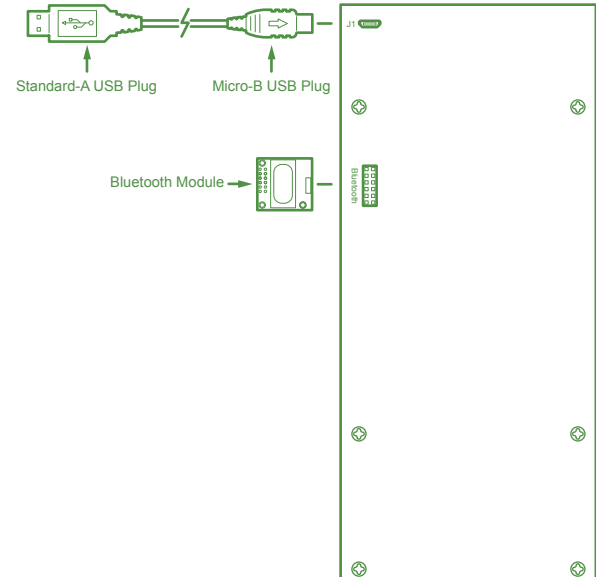
Bluetooth

Ordering Information

Part Number	Description
TK-2.0	Tech Kit 2.0 (Micro-USB Cable, USB flash drive with BRT Essentials software, Bluetooth Dongle, Bluetooth Module, Screwdriver, and Carry Bag)