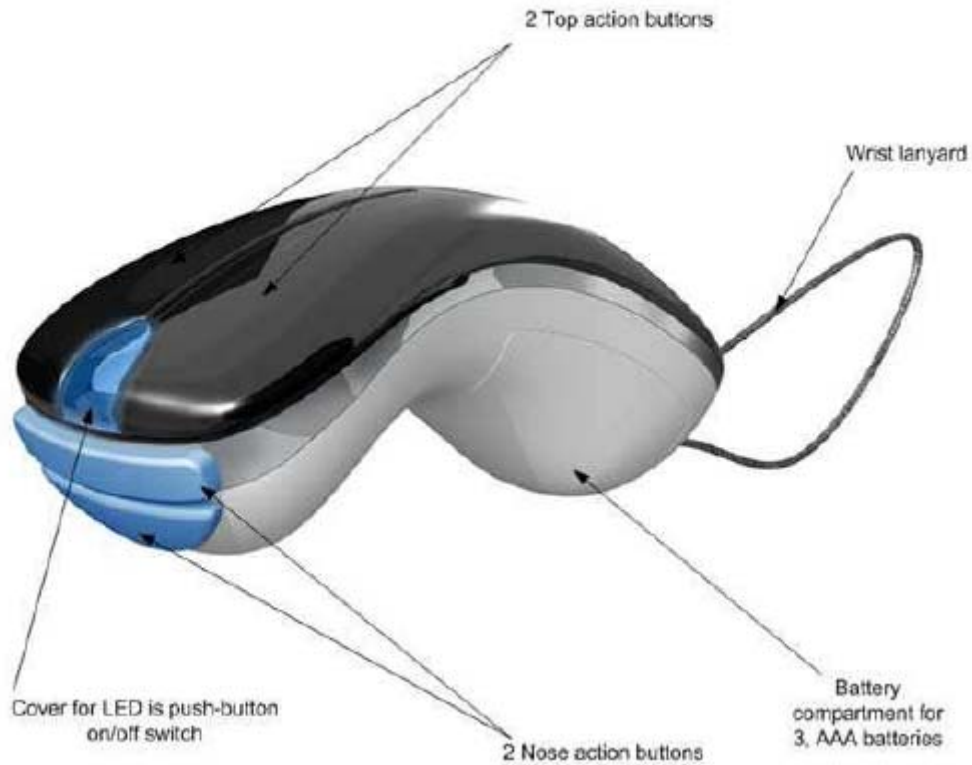Wireless Firepad

Functions

Buttons

    (1)   **<u>Digital</u>** buttons:

        λ   Two action buttons on the top

        λ   Two noise buttons in the front

    Button definition:

        λ   Top left action button: Button 1

        λ   Top right action button: Button 2

        λ   Front up noise button: Button 3

        λ   Front bottom noise button: Button 4

    (2)   On/Off buttons

        λ   Press On/Off button to connect the RF module

        λ   Press and hold On/Off button to switch on or off

Functions

Buttons

    (3)   LED

        λ   If connection is successfully, press On/Off button to reconnect the other RF module.

        λ   If connection is successfully, press and hold On/Off button to switch off (sleep mode) the RF module.

    Status

        λ   Connected: Solid

        λ   No Connection: Flashes (5Hz)

        λ   Connected under low voltage: Flashes (3Hz)

        λ   No connection under low voltage: Flashes (3Hz)

        λ   Sleep Mode: Off for 5 seconds and On for 0.5 seconds periodically

        λ   Off: Off

    Remark: Low voltage 3.5V $\pm$0.1V

Sleep Mode vs off mode

(1)   Sleep mode

    It will entry sleep mode automatically when

        λ   No connect for 30 seconds

        λ   Stay for 2 minutes

    To wake up the unit

        λ   Press action or noise buttons

        λ   Move it

    Motion sensor and MCU will be in standby mode

    RF module will be in the off stage

(2)   Off mode

    Press and hold On/Off button to switch off the unit

    Press On/Off button to switch on the unit

    Motion sensor and RF will be in the off stage

    MCU will be in standby mode

Current

- λ   Connected: 16mA
- λ   Sleep mode: 1.4mA
- λ   Off mode: 10μA

The new VID for the wireless Firepad is 0x1C40 (or 7232 decimal)and the new PID is 0x03F3 (or 1011 decimal). Please do not use the VID and PID from the existing Firepad.

Program

Device Descriptor:

bcdUSB:	0x0200
bDeviceClass:	0x00
bDeviceSubClass:	0x00
bDeviceProtocol:	0x00
bMaxPacketSize0:	0x40 (64)
idVendor:	0x1C40
idProduct:	0x03F3
bcdDevice:	0x0100
iManufacturer:	0x01
0x0409:	""
iProduct:	0x02
0x0409:	""
iSerialNumber:	0x00
bNumConfigurations:	0x01
ConnectionStatus:	DeviceConnected
Current Config Value:	0x01
Device Bus Speed:	Full
Device Address:	0x01
Open Pipes:	2

Endpoint Descriptor:

bEndpointAddress:	0x02
Transfer Type:	Interrupt
wMaxPacketSize:	0x0040 (64)

bInterval: 0x0A

Endpoint Descriptor:

bEndpointAddress: 0x81

Transfer Type: Interrupt

wMaxPacketSize: 0x0040 (64)

bInterval: 0x0A

Configuration Descriptor:

wTotalLength: 0x0029

bNumInterfaces: 0x01

bConfigurationValue: 0x01

iConfiguration: 0x00

bmAttributes: 0x80 (Bus Powered)

MaxPower: 0x32 (100 Ma)

Interface Descriptor:

bInterfaceNumber: 0x00

bAlternateSetting: 0x00

bNumEndpoints: 0x02

bInterfaceClass: 0x03 (HID)

bInterfaceSubClass: 0x00

bInterfaceProtocol: 0x00

iInterface: 0x00

HID Descriptor:

bcdHID: 0x0111

bCountryCode: 0x00

bNumDescriptors: 0x01

bDescriptorType: 0x22

wDescriptorLength: 0x0089

Endpoint Descriptor:

bEndpointAddress: 0x02

Transfer Type: Interrupt

wMaxPacketSize: 0x0040 (64)

bInterval: 0x0A

Endpoint Descriptor:

bEndpointAddress: 0x81

Transfer Type: Interrupt

wMaxPacketSize: 0x0040 (64)

bInterval: 0x0A

FCC Note:

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and;

2. This device must accept any interference received, including interference that may cause undesired operation.