

MCB (Mini Console Box)

Features

- ✓ Up to Four Dual or Single Axis Joysticks for Proportional Control
- ✓ Up to Five Toggles or Optional Button Controls
- ✓ 900MHz @ 10mW or 2.4GHz @ 100mW Operation
- ✓ Push/Pull Professional Machine Stop
- ✓ Four System Status/Diagnostic LEDs
- ✓ CAN Umbilical Connection Available
- ✓ Operates Using Four AA Alkaline Batteries
- ✓ Magnets for Convenient Attachment to Ferrous Surfaces
- ✓ Belt Loops to Securely Attach to Belt or Harness



The SmaRT MCB Mini Console Box communicates with and controls SmaRT base units using either 900MHz (906 – 924 MHz @ 10mW) or 2.4GHz (2405 – 2480 MHz @ 100mW) frequency ranges. Using line-of-sight DSSS (Direct-Sequence-Spread-Spectrum) technology, either broadcast range offers a generous control distance in crowded radio environments with the added benefit of neither broadcast range requiring a license for use. The rugged enclosure and water resistant components ensure reliable operation in harsh weather environments operating in temperatures as low as -20°C to a maximum of 55°C (-4°F to 131°F). The MCB internal antenna broadcasts to base units and uses a CAN Bus umbilical connection when engineered to do so. The SmaRT Mini Console Box offers a variety of joystick and switch options that are factory configured upon ordering.

Specifications

Power

Operating Voltage	1.6V to 3.2VDC
Batteries	Four (4) AA Alkaline
Low V Shutdown	≈1.6V
Inactivity Shutdown	4-Minutes Standard (Programmable)

Environment

Operating Temp	-20 to +55°C (-4° to +131°F)
Storage Temp	-40 to +55°C (-40° to 131°F)
Humidity	0 to 100%

Indicators (LEDs)

TX (Green)	Solid – transmitting, switch active Blinking – transmitting, no switch active
RX (Amber)	Blinking – receiving, no output of interest active Solid – receiving, output of interest active
ERR (Red)	Indicates error
BATT (Amber)	Blinking – low battery indication

Control Switches

Joysticks	Up to four (4) dual or single axis
Toggles	2 or 3-position momentary or maintained
M-Stop	Professional pull-up/push-down
Pushbutton	Activation Button
Umbilical	CAN J1939

Enclosure

Material	High-impact polymer
Faceplate	Aluminum or polycarbonate
Hardware	Stainless steel
Dimensions	mm: 230.6x133.9x146.9 inch: 9.1 x 5.3 x 5.8

Total Weight 1.13kg (≈2.50 lbs.)

Radio

Frequency	906MHz to 924MHz @ 10mW 2405MHz to 2480MHz @ 100mW
License	None required
Modulation	Direct-Sequence-Spread-Spectrum (DSSS)
Antenna	Internal

MCB Product Family Listing

Common Features

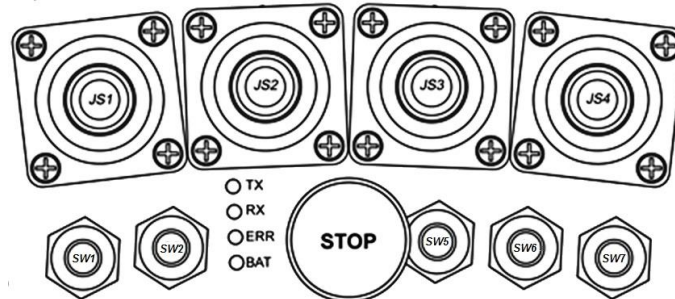
Discrete Inputs and Type	Dedicated M-Stop	Magnets	Belt Loops	Activation
6-Momentary 3-Position Toggle	Yes	Yes	Yes	Power Button

Model Specific Features

Model Name	Freq.	RF Power	Proportional Inputs Prop. Input Type	Umbilical
MCB-9H02JS	900MHz	10mW	2-Single Axis	No
MCB-9H02JS-UMB	900MHz	10mW	2-Dual Axis	Yes
MCB-9H04JS	900MHz	10mW	4-Dual Axis	No
MCB-9H04JS-UMB	900MHz	10mW	4-Dual Axis	Yes
MCB-2H02JS	2.4GHz	100mW	2-Dual Axis	No
MCB-2H02JS-UMB	2.4GHz	100mW	2-Dual Axis	Yes
MCB-2H04JS	2.4GHz	100mW	4-Dual Axis	No
MCB-2H04JS-UMB	2.4GHz	100mW	4-Dual Axis	Yes

Custom Configurations by Request

MCB Top Switch Layout



MCB Bottom Layout

