

SmaRT CB (Console Box)

Features

- ✓ Up to Three Dual-Axis Joysticks for Proportional Control or Up to Seven Single-Axis Levers
- ✓ Up to Eleven Toggle or Button Controls
- ✓ Push/Pull Machine Stop
- ✓ 900 MHz @ 10 mW or 2.4 GHz @ 100 mW Operation
- ✓ Optional Eight Character LED Display
- ✓ Four Diagnostic and Four Configurable LEDs
- ✓ Optional Umbilical Connection Available
- ✓ Operates Using Two C-Cell Batteries
- ✓ Belt Loops to Securely Attach to Belt or Harness



7-Lever Model Example

The SmaRT Console Box (CB) communicates with and controls SmaRT base units using either 900 MHz (906–924 MHz @ 10mW) or 2.4 GHz (2405–2480 MHz @ 100 mW) frequency ranges. Using line-of-sight Channel-Hopping Direct Sequence Spread Spectrum (DSSS) technology, either broadcast frequency offers a generous control distance in congested radio environments. 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 SmaRT Console Box offers a variety of lever, joystick, and switch options that are factory configured upon ordering.

Specifications

Power

Operating Voltage	1.6 to 3.2 VDC
Batteries	Two C-cell batteries
Option	Charger and rechargeable battery
Low V Shutdown	$\approx 1.6\text{V}$
Inactivity Shutdown	4-Minutes typical (programmable)

Environment

Operating Temp	-20°C to $+55^{\circ}\text{C}$ (-4°F to $+131^{\circ}\text{F}$)
Storage Temp	-40°C to $+55^{\circ}\text{C}$ (-40°F 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 active Solid – receiving, output active
ERR (Red)	Indicates error
BATT (Amber)	Blinking – low battery indication
LED Option	Up to four additional custom programmed
Display Option	8-character LED

Control Switches

Joysticks	Up to three dual-axis
Levers	Up to seven single-axis
Toggles	Up to 11 two- or three-position momentary or maintained
Options	Pushbuttons, potentiometers, rotary switches
Stop	Pull-up/Push-down
Umbilical	Optional tether cable backup

Enclosure

Material	High-impact glass filled nylon
Faceplate	Aluminum
Hardware	Stainless steel
Dimensions	10.25 x 5.62 x 5.50 inches
Total Weight	4.0 lbs

Radio

Frequency	906 MHz to 924 MHz @ 10 mW 2405 MHz to 2480 MHz @ 100 mW
License	None required
Modulation	Channel-Hopping DSSS
Antenna	Internal

Product Family Listing

Common Features

Power:	Two Type C-Cell Batteries
Dedicated Stop Switch:	Oversized, Spring-Loaded 2-Position
Activation:	Twist-Up the Stop Button, then SW12+ (Up)
Discrete Inputs Type:	Momentary or Maintained 2- or 3-Position Toggle
Attachment:	Molded Belt Attachments
Diagnostic Indicators:	Green, Amber, & Red LEDs

Model Specific Features

Model Name	Freq.	RF Power	Proportional Inputs Prop. Input Type	Umbilical
CB-9H07LV	900 MHz	10 mW	7-Single Axis Levers	No
CB-9H07LV-UMB	900 MHz	10 mW	7-Single Axis Levers	Yes
CB-2H07LV	2.4 GHz	100 mW	7-Single Axis Levers	No
CB-2H07LV-UMB	2.4 GHz	100 mW	7-Single Axis Levers	Yes
CB-9H03JS	900 MHz	10 mW	3-Dual Axis Joysticks	No
CB-9H03JS-UMB	900 MHz	10 mW	3-Dual Axis Joysticks	Yes
CB-2H03JS	2.4 GHz	100 mW	3-Dual Axis Joysticks	No
CB-2H03JS-UMB	2.4 GHz	100 mW	3-Dual Axis Joysticks	Yes

Custom Configurations by Request

2-Joystick Model Example



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