

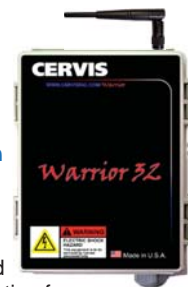
Warrior MU

Features

- ✓ Compact Designed to IP65/IP67 Standards
- ✓ 900MHz Operation
- ✓ Designed to ICS 8 NEMA Crane Specification
- ✓ Eight DIP Switches Allow for Configurability

The Warrior MU receiver is a low cost machine-mounted unit intended for use on industrial cranes. The Warrior MU is self-contained and preconfigured providing a pre-engineered solution for standard crane control. The Warrior MU will accept control commands from HH2S, MCB, and Warrior CB series transmitters.

The Warrior MU can be mounted by utilizing the included mounting feet. The sturdy enclosure allows the Warrior MU to operate worry free in harsh weather conditions. An integral pre-wired, numbered 25-wire cable allows easy installation by following instruction drawings.



Specifications

Power	
Operating Voltage	110 to 220VAC @ 50-60Hz 7 to 36VDC
Operating Power	10 to 28VAC @ 50-60Hz 0.35A

Environment

Operating Temp	-40°C to 70°C (-40°F to 158°F)
Storage Temp	-40°C to 80°C (-40°F to 176°F)
Humidity	0-95% non-condensing

Enclosure

Dimensions	8.327" x 6.358" x 3.937" 211.50mm x 161.50mm x 100mm
Durability	NEMA 1, 2, 4, 4X IP65/IP67

Mounting

Four wall-mounting brackets
Four M4 x 10mm LG. self-tapping screws
Optional 2-bolt mount

LED Indicators

Ten (10)	Internal diagnostics
One (1)	High-intensity strobe

Radio

Frequency	906-924MHz
License	License Free
Antenna	External (RP - TNC)

MLC Circuit

Two (2)	Type Form A
Contact Rating	8A Max. @ 250VAC

Control Relays

Sixteen (16)	Type Form A
Contact Rating	8A Max. @ 250VAC Fused @ 5A

Warrior MU6E

Features

- ✓ Designed to IP65/IP67 Standards
- ✓ 900MHz Operation
- ✓ Designed to ICS 8 NEMA Crane Specification
- ✓ Up to 48 Configurable Output Relay Contacts



The MU6E is a modular receiver intended for use in industrial systems including overhead cranes. The self-contained MU6E can be configured with various input/output modules accommodating various I/O requirements. The MU6E will accept control commands from the full range of Cervis Warrior transmitters including the multi-lever Warrior Console Box.

The MU6E can be mounted by utilizing the included 4-bolt mounting flange. The sturdy enclosure allows the MU6E to operate in harsh weather conditions. Additional accessories also available include antenna extension cables and integrated audible horn.

Specifications

Power	
Universal AC Module	110 to 220VAC @ 50-60Hz
Universal DC Module	12 to 48VDC
Power	20W max.

Environment

Operating Temp	-40°F to 157°F (-40°C to 75°C)*
Storage Temp	-40°F to 176°F (-40°C to 80°C)
Humidity	0-99% non-condensing

Enclosure

Dimensions	9.5" x 10.5" x 5.5" 241.3mm x 266.7mm x 139.7mm
Durability	NEMA 1, 2, 4, 4X IP65/IP67

Mounting

Mounting bracket

Radio

Frequency	906-924MHz
License	License Free
Modulation	Channel hopping DSSS
Antenna	External (RP - TNC)

Safety Circuit Designed to ISO 13849 Cat 3 PLD

Contacts	Common, NO, NC, start contacts
Contact Rating	8A Max. @ 250VAC

Expansion

Seven: Six I/O, one power

Expansion Cards

Relay Card: Eight Form A Relays
Two independent banks of four, 5A per bank

Analog Card: 4-Independent AO channels

0-10V mode, 40mA max current
0-20mA mode, 12V max

Four AI Channels

0-10V mode, 1.5Hz cutoff
0-20mA mode, 1.5Hz cutoff

NEW PRODUCTS

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Warrior HH2S Handheld Remote

Features

- ✓ 900MHz Operation
- ✓ Ten 2-Step Buttons
- ✓ Protective Rubber Bumper
- ✓ Auto-Shutdown on High g-Force
- ✓ Compact Weatherproof Design
- ✓ Rugged High-Impact Polymer Enclosure
- ✓ Haptic Feedback Vibrator Option
- ✓ Four LED Indicators
- ✓ Powered by 2-AAA Battery



HH2S handheld remotes feature ten 2-step pushbuttons. Using Channel Hopping Direct Sequence Spread Spectrum (DSSS) technology at 900MHz, HH2S handheld remotes provide a robust link with a receiver in congested radio environments. These handheld remotes feature seamless association to receivers without a need to cycle power or access the receiver.

Using an internal accelerometer, the handheld remote immediately deactivates following a high g-Force event. Auto-Shutdown is also available through an inactivity timer. Both features are configurable. Pushbuttons are rated at greater than 6N force to activate the first step and greater than 12N to activate Step 2.

Handheld remote applications include, but are not limited to, overhead crane control, such as 3-motion/2-speed and 2-motion/2-speed. Both can include A/B transfer.

Specifications

Power	
Vin	+2.0 to +3.0V
Batteries	Two (2) AAA
Auto-Shutdown	Programmable Time-Base Inactivity or High g-Force Event

Environment

Operating Temp	-20°C to 55°C (-4°F to 131°F)
Storage Temp	-20°C to 85°C (-4°F to 185°F)
Humidity	0-95% non-condensing

Enclosure with Bumper

Dimensions	5.37" x 2.68" x 0.92" 136mm x 67.96mm x 28.42mm
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Total Weight 299 gr. / 7.2 oz

Durability

High Impact Polymer Case
Polycarbonate Faceplate
Impact Absorbing Bumper

LED Indicators

TX/RX	Transmit/Receive
BATT	Battery life
A	A Selection
B	B Selection

Radio

Frequency	906-924MHz
License	FCC Part 15, License Free
Antenna	Internal
Modulation	Channel Hopping DSSS

Warrior MCB Handheld Remote

Features

- ✓ Three or Four Joysticks
- ✓ 900MHz Operation
- ✓ Two Toggle Switches
- ✓ Four LED Indicators
- ✓ Powered by 4-AA Batteries
- ✓ Push/Pull Stop Switch
- ✓ Tilt Switch
- ✓ Channel Hopping Direct Sequence Spread Spectrum Technology (DSSS)
- ✓ Compact Weatherproof Design
- ✓ Rugged High-Impact Glass-Filled Nylon Enclosure



The Warrior MCB mini console box communicates with and controls the Warrior MU base units at 900MHz using Direct Sequence Spread Spectrum technology. The MCB offers solid control in crowded radio environments with the added benefit of not 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).

MCB remote applications include, but are not limited to, overhead crane control, such as 3-motion/2-speed and 4-motion/2-speed. Both can include A/B transfer.

Specifications

Power	
Operating Voltage	1.6 to 3.2VDC
Batteries	Four (4) AA Alkaline
Auto-Shutdown	Tilt Switch
Inactivity Shutdown	Four Minutes Standard (Programmable)

Environment

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

Enclosure

Dimensions	7.09" x 4.15" x 4.61" 180.3mm x 105.44mm x 117.04mm
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Total Weight ≈2.50 lbs. (1.13kg)

Durability

Glass-Filled Nylon Case
Polycarbonate Faceplate
Stainless Steel

LED Indicators

TX/RX	Transmit/Receive
BATT	Battery Life
A	A Selection
B	B Selection

Radio

Frequency	906-924MHz
License	FCC Part 15, License Free
Antenna	Internal
Modulation	Channel Hopping DSSS

Warrior CB Console Box Transmitter

Features

- ✓ Up to Seven Single-Axis, Bi-directional Levers
- ✓ Stepless or Up To 5-Step Control from Stepless Levers
- ✓ Options for Toggles, Potentiometers, Pushbuttons, and Rotary Switches for AUX functions
- ✓ Standard Four System Status/Diagnostic LEDs
- ✓ Unsurpassed Durability and Environmental Sealing
- ✓ Shoulder Harness Standard, Optional Belt Mounting
- ✓ Operates Using Two C-Cell Batteries
- ✓ Optional 8-Character LED Display
- ✓ 900MHz Operation
- ✓ Push/Pull Stop Switch



The Warrior CB Console Box is designed for control of overhead bridge cranes. This transmitter offers up to seven single-axis, bi-directional levers for crane motions as well as toggle switches, pushbuttons, rotary switches, and potentiometers for AUX functions. Housed in an extremely durable, sealed glass-filled nylon enclosure, the Warrior CB is ready for duty in harsh environments including outdoor applications. Warrior systems operate in the 900MHz FCC Part 15 License Free radio band, 400MHz band FCC Part 90 options are also available. The bi-directional radio transmission is continuously monitored, where each message sent by the transmitter is acknowledged with a message from the receiver. Transmitter diagnostic LEDs provide radio integrity, battery life, and A/B/AUX select feedback to the operator.

The reliable, ergonomically designed Warrior CB unit can be paired with our Warrior MU or Warrior MU6E model receivers. Contact your Cervis sales representative to discuss your application requirements.

Specifications

Power	
Operating Voltage	1.9 to 3.2VDC
Batteries	Two (2) C-Type Alkaline (typical)
Low V Warning	2.1V
Auto-Shutdown	2.0V
Inactivity Shutdown	4-Minutes Standard (Programmable)

Environment

Operating Temp	-20°C to 55°C (4°F to 131°F)
Storage Temp	-20°C to 55°C (-4°F to 185°F)
Humidity	0-95% Non-Condensing

LED Indicators

TX/RX	Transmit/Receive
BATT	Battery Life
A	A Selection
B	B Selection

Enclosure

Material: Glass-filled Nylon	Faceplate: Aluminum.
Hardware: Stainless Steel	Total Weight : 3.95lbs (1.8kg)
Dimensions: 10.4" x 5.6" x 5.5" (263.5mm x 131.5mm x 139mm)	

Radio

Frequency	906MHz - 924MHz
License	FCC Part 15, license free
Modulation	Channel Hopping DSSS