

DATASHEET

FORT PRO SERIES

PRODUCT

FORT PRO SERIES

SOURCE DOCUMENT

FORT_Safe_Remote_Control_Pro_Datasheet_030526.pdf



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Safe Remote Control Pro: Next Generation Machine Control



Part of the FORT Pro Series, the

Safe Remote Control Pro (SRC Pro)

is a rugged, easy-to-use wireless handset for safe, secure, dynamic machine control. With flexible configuration, trusted communication, and SIL 3-certified emergency stop function, the SRC Pro helps you maximize output while lowering risk.

Operate Safely and Productively

Operate high-risk systems from a safe distance and increase operator ease with a reliable wireless solution. Uses FORT's patented technology for control you can depend on.



Control a Fleet with a Single Remote

Pair one remote with up to 30 machines and operate or stop one at a time using the Machine Select feature. Ideal for taking temporary control of autonomous systems.



Prevent Accidents and Downtime with SIL 3 Certified Safety Commands

Built-in emergency stop is certified to meet SIL 3 requirements, helping you protect people and assets, prevent accidental downtime, and comply with safety regulations.



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SRC Pro Features & Functions

Machine Select	Pair one Safe Remote Control Pro with up to 30 different machines and control or e-stop one at a time.
SIL 3 Certified E-Stop	Send a SIL 3 certified emergency stop safety command over ISM radio or BLE. Certified by Exida.
Long Lasting Battery	Battery lasts for up to 18 hours and operates while charging.
Easy-to-Use Design	Familiar gaming style design makes this remote easy to learn and use, and comfortable for all-day operation.
Rugged Form Factor	Built for harsh indoor and outdoor work environments, the remote functions in a range of weather conditions with IP65 rating.
Reliable Wireless Communications	Commands sent over Bluetooth Low Energy (BLE) or ISM Radio (915 and 868 MHz), with FORT's patented wireless technology for trusted communication.
Drop, Orientation, & Inactivity Detection	Remote can be configured to pause when dropped, held in the wrong way, or when it has been inactive for a specified amount of time.
Built-in Security	Secure protocol prevents unauthorized access during boot, updates, and configuration.
Seamless Configuration & Management	Onboard, configure, pair, and update your devices easily with FORT Manager– available via cloud and desktop apps or API.

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Safe Remote Control Pro Details



Bolt-On Receiver: Endpoint Controller

For more information on FORT's Endpoint Controller, please visit the [FORT website](#) or download the [datasheet here](#).

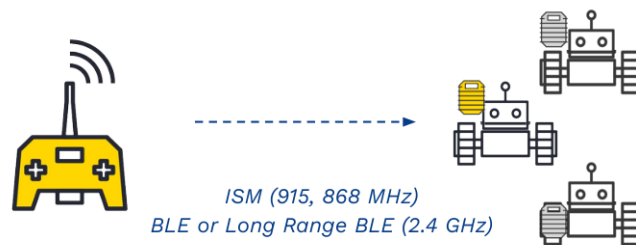


Embedded Receiver: Nano Safety Controller Pro

For more information on the FORT [website](#), or download the [datasheet here](#).

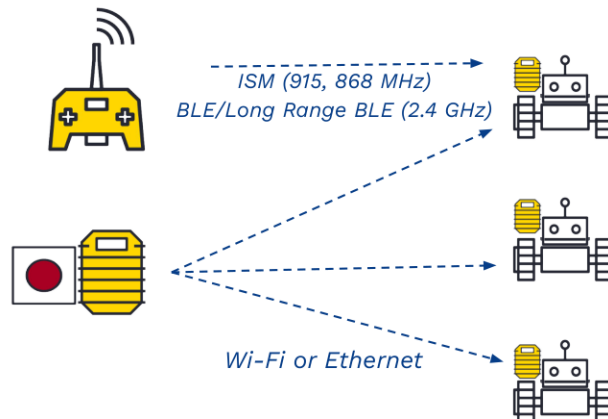
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SRC Pro Pairing & Communication



Machine Select:

Pair 1 SRC Pro with up to 30 Endpoint Controllers. Control one at a time over ISM radio or Bluetooth.



Combination Commands:

Use Endpoint Controller for global commands and SRC Pro for single machine operation as needed.

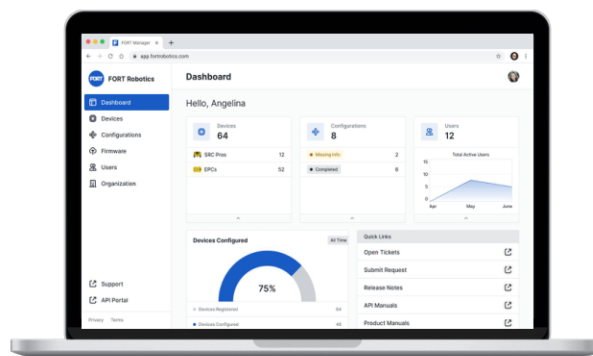


Embedded Receiver

Pair the Safe Remote Control Pro with the embedded Nano Safety Controller Pro (NSC Pro.)

Easy device management and configuration with FORT Manager

Available via web or desktop app or API integration, FORT Manager provides a convenient solution for:



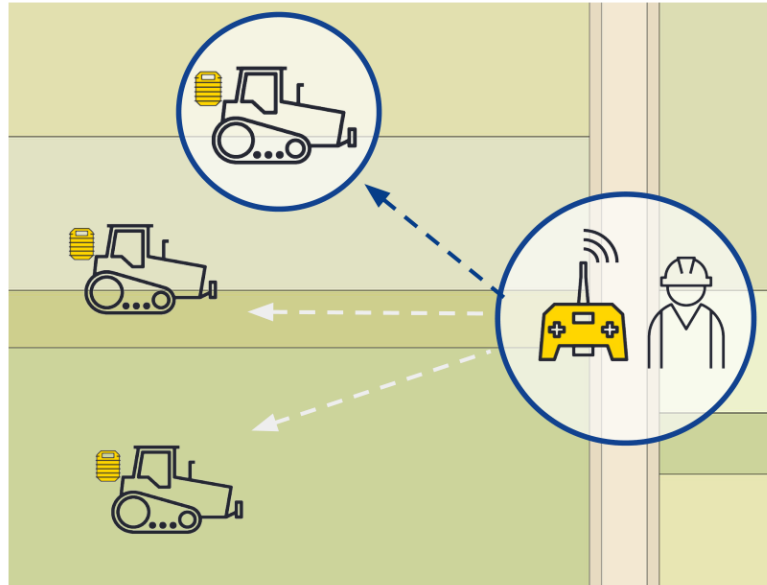
- Onboarding and managing FORT Pro Series devices
- Building safe, secure device configurations
- Managing organizations, users, and permissions

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Safe Remote Control Pro Common Use Cases

OFF ROAD (Agriculture, Construction, Mining)

Control in the Field for Maintenance or Relocation

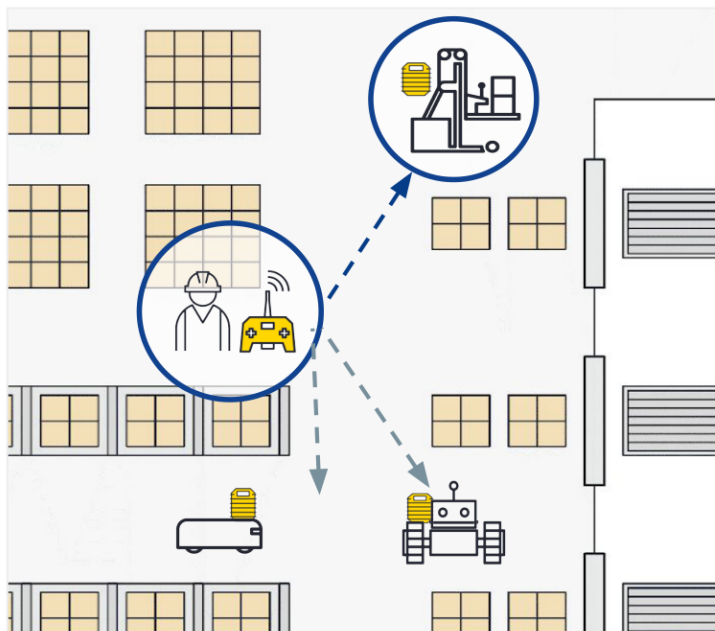


- Supervise a fleet of autonomous vehicles from a single remote.
- Take control of a single machine as needed for maintenance, moving to and from different sites, etc.

INDOOR (Manufacturing, Warehouse)

Control autonomous mobile robots, forklifts, and more

- Take control of an autonomous system to navigate a specific task or unexpected situation
- Work seamlessly throughout the facility with a single controller.
- Maximize safety and uptime.



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Technical Specifications

Safe Remote Control Pro

Dimensions (no antenna)	181mm x 155mm x 83mm (7.14" x 6.1" x 3.27")
Base Unit Weight	726g, 1.6lb
Operating Temperature	-20°C to 60°C
Operating Voltage	Battery powered
Charging Voltage	5V DC @ 2A (USB)
Charging Temperature	Charges at 0°C to 45°C
Battery Life	Up to 18 hours
Connectors	Mini USB-B for models 1001 & 1002 USB-C for 1003
Inputs	Emergency stop; (8) buttons; (2) 1-axis finger sticks; (2) 2-axis joysticks
Enclosure Rating	IP65
Safety Command Response Time	100ms avg tested plus network latency
Safety Timeout Period	Selectable: .25 sec; .50 sec; .75 sec; 1 sec; 3 sec; 5 sec
Compatible Devices	Receiver: Endpoint Controller or Nano Safety Controller Pro

Pairing	1 SRC Pro : 30 Receivers (Control one at a time)		
Security	Cryptographic boot, secure element, verification		
Regulatory	FCC and IC compliant; CE mark; Giteki mark (1003 model only)		
Safety Certification	E-stop functionality certified to SIL 3 per IEC 61508 by Exida		
Wireless Communication	SRC Pro 1001	SRC Pro 1002	SRC Pro 1003
Bluetooth Low Energy (BLE)	Standard Bluetooth	Standard Bluetooth	Long Range Bluetooth
BLE Wireless Range	15m-30m line of sight	15m-30m line of sight	250m line of sight
ISM Radio	902-928 MHz (US & Canada)	869.4-869.65 MHz (EU)	N/A
ISM Radio Wireless Range <i>May vary based on antenna placement and environment</i>	300-400m line of sight	100-200m line of sight	N/A
Output Radio Transmission Maximum Power	200mW	200mW	50mW

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Product & Accessories Part Numbers

REMOTE CONTROL MODEL	WIRELESS COMMUNICATION	PRODUCT CODE
SRC Pro 1001	Standard BLE & ISM Radio 902-928 MHZ	100-0275
SRC Pro 1002	Standard BLE & ISM Radio 868 MHz	100-0277
SRC Pro 1003	Long Range Bluetooth (BLE) only	100-0308

STARTER KITS: BUNDLES INCLUDING ALL RECOMMENDED ACCESSORIES

SRC Pro 1001 Starter Kit:	800-0023
USB Cable Type A to mini-B, 3ft	100-0029
AC/DC wall mount adapter 5V/10W (NA / J)	270-0018
900 MHz antenna, RP-SMA male	275-0108
Hard storage case, yellow	100-0435
SRC Pro 1002 Starter Kit:	800-0024
USB Cable Type A to mini-B, 3ft	100-0029
AC/DC wall mount adapter 5V/10W (Class II) (EU)	270-0021
800 MHz, RP-SMA male	275-0111

STARTER KITS: BUNDLES INCLUDING ALL RECOMMENDED ACCESSORIES

Hard storage case, yellow	100-0435
SRC Pro 1003 Starter Kit (NA/JP):	800-0025
USB-A adapter, 10W	270-0018
USB-A to USB-C, 1m	250-0561
2.4 GHz, RP-SMA male	275-0112
Hard storage case, yellow	100-0435
SRC Pro 1003 Starter Kit (EU):	800-0026
AC/DC wall mount adapter 5V/10W (Class II) (EU)	270-0021
2.4 GHz, RP-SMA male	275-0112
USB-A to USB-C, 1m	250-0561
Hard storage case, yellow	100-0435
SRC Pro 1003 Starter Kit (AU/NZ):	800-0027
AC/DC wall mount adapter 5V/10W (AU)	270-0022
2.4 GHz, RP-SMA male	275-0112
USB-A to USB-C, 1m	250-0561
Hard storage case, yellow	100-0435

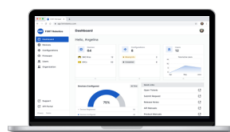
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FORT ROBOTICS CONTROL PLATFORM**Pro Series**

**Safe Remote
Control Pro**



**Endpoint
Controller**



FORT Manager



**Nano Safety
Controller Pro**



**Wireless
E-Stop Pro**

Foundation Series



Safe Remote Control



Vehicle Safety Controller



Wireless E-Stop



Wired Remote Control

Professional Services



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