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DESCRIPTION

The ZTC-F64 Multi-protocol Configuration Tool provides an interface to Holjeron's proprietary ZoneLink®.S and ZoneLink®TC motor driven roller controllers, as well as any device or system utilizing Honeywell's Smart Distributed System protocol.

The ZTC-F64 enables any computer with a USB port to monitor and communicate with ZoneLink®.S and ZoneLink®TC devices using off-the-shelf USB and Cat 5 cables to:
• Monitor diagnostics
• Configure parameters for connected devices either individually or globally.

The ZTC-F64 also enables connection with SDS devices or networks via USB, giving you the ability to:

- Configure SDS devices including address, device name, and settings for logic and timing functions.
- Full SDS Bus Mastering capability.
- Troubleshoot and monitor the bus, including identifying missing devices.

This product replaces:

Description	Part Number
ZoneLink®.S to Serial Interface	ZL.S-F32
HSIM Portable Configuration Kit	HSM-PTB100
CAN Error Counter for SDS Networks	CAN-CTR102
SDS Bus Master Interfaces	

Ordering Information
There are two versions of the Multi-Protocol Configuration Tool kit available:

Description	Part Number
F64 ZoneLink®.S Interface Kit	ZTC-F64-DOTS
F64 ZoneLink®.TC ViaBus and SDS Interface Kit	ZTC-F64-VBS

Both kits include:
(1) ZTC-F64 Multi-Protocol Configuration Tool
(1) 6' USB Cable
(1) 3' Cat 5 Cable

F64 ZoneLink®.TC ViaBus and SDS Kit also includes:
(1) ViaBus DB9-Cat 5 Adapter

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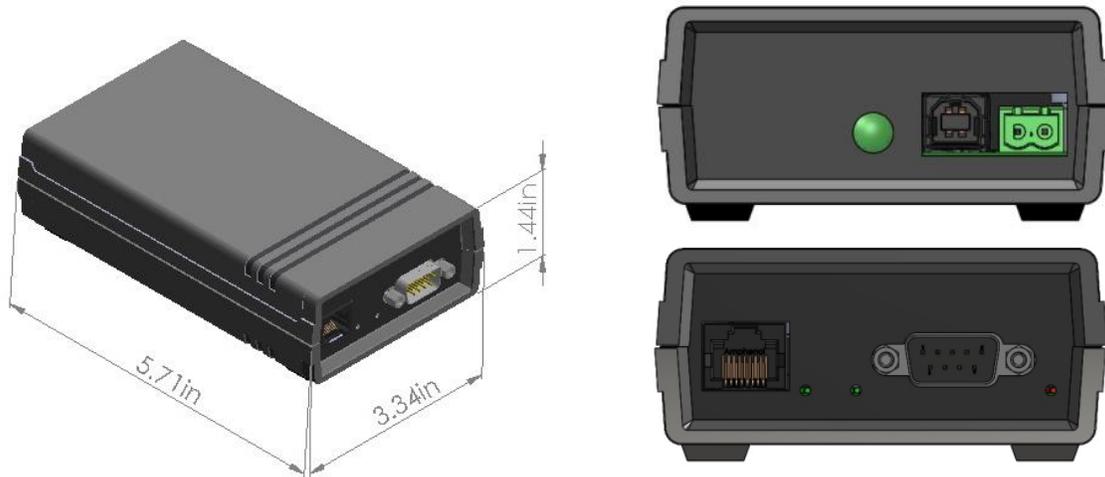## GENERAL PRODUCT SPECIFICATIONS

Part Number	F64 ZoneLink®.S Kit		ZTC-F64-DOTS
	F64 ZoneLink®.TC ViaBus and SDS Kit		ZTC-F64-VBS
Electrical Power	Termination		2-pin pluggable terminal block
	Voltage Range - ZoneLink®.S		24 VDC (+/- 10%)
	Voltage Range - ZoneLink®TC & SDS		11 – 28 VDC
	Current Consumption, Typical		75 mA @ 24V
	Max SDS / ViaBus current		2A self-resetting fuse
USB Port	Virtual Comm Port		Electrically Isolated USB Type B Port
	Current Consumption, Max		10 mA
Environmental	Temperature	Storage	-30° to 70° C (-22° to 158° F)
		Operating	-30° to 70° C (-22° to 158° F)
	Humidity		5-95% RH, non-condensing
	Vibration		2G at 10 to 500 Hz
	Shock		10G
	Sealing		IP20
Physical	Dimensions		1.5"(h) x 3.4"(w) x 5.8" (l)

Please Note: If you intend to use this tool with both ZoneLink®.S and ZoneLink®TC installations, care must be taken to connect the device to the appropriate network.

- **Connecting the ZoneLink®.S port to a ZoneLink®TC or SDS bus will result in damage to the F64 Multi-Configuration Tool.**
- **Connecting the ZoneLink®TC / SDS Port to a ZoneLink®.S bus using the DB9 to Cat 5 Adapter may result in damage to devices on the ZoneLink®.S bus.**

DIMENSIONS AND CONNECTOR LAYOUT

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DEVICE SETUP AND POWER REQUIREMENTS:

For use with ZoneLink®.S products and fieldbuses:

- 24V +/- 10% at 75mA must be provided via the 2-pin pluggable terminal block.

ZoneLink®TC Serial Communication:

- 24V at 2.1A must be provided via the 2-pin pluggable terminal block.

ViaBus/SDS:

- **Option 1:** The device can be powered from the fieldbus via the DB9 Connector if the SDS / ZoneLink®TC devices on the bus are powered. No additional power to 2-pin terminal block required
- **Option 2**: 24V at 2.1A can be provided via the 2-pin pluggable terminal block. This option provides power to the ZTC-F64 Multi Configuration Tool as well as a limited number of devices on a connected fieldbus. This option may be used to configure devices on the fieldbus prior to installation or application of power.

USB VIRTUAL COMM PORT CONNECTIVITY:

Windows 7 / 8 / 10:

Windows PCs require the appropriate STMicroelectronics STM32 Virtual Com Port Driver to communicate with both the F64 Multi-Protocol Configuration Tool.

Holjeron has made the driver available on our support site: https://holjeron.com/support/

Extract the contents of the zip file to a convenient location on your host PC.

Go into the folder you extracted to and run the appropriate version of the driver install package, based on the version of Windows you're running.

Windows 10 Users Please Note: The ST Micro website and readme.txt file with the download indicate that the "native inbox driver" provided with Windows should be used, however this does currently work with our software. Please install the Windows 8 version of the driver (either 32 or 64 bit depending on your PC)

Note: As of 5/18/2018 the download package says Version 1.5.0, but once installed Device Manager will show it as Version 1.4.0

Once connected, the device will show up as "STMicroelectronics Virtual COM Port" and will be assigned a COM port number (i.e COM4)
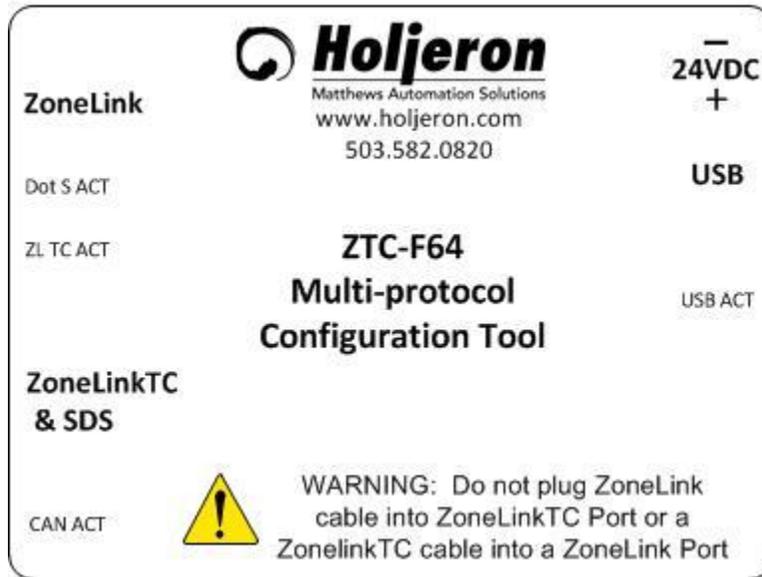
Mac OSX and Linux:

Virtual Comm Port is supported natively by these operating systems.

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- Linux: Once connected, the device will show up as "ttyACM0" in the dev list (i.e. dev/ttyACM0)
- Mac OSX: Once connected, the device will show up as "usbmodem1411" in the dev list.

STATUS INDICATORS:

There are 4 LED indicators integrated into the ends of the ZTC-F64, as shown on the label above and located as indicated in the diagrams above:

- **A: USB ACT**: RGB LED for indication of power and activity between USB and ZTC-F64 Tool.
  - o **Red:** Powered but not enumerated on USB
    - ▪ Will happen momentarily upon startup or when USB cable is unplugged.
  - o **Green:** Enumerated on USB, no current USB traffic
    - ▪ Standard "ready" state
  - o **Blue:** Active USB traffic.
    - ▪ Whenever data is being transferred between host PC and ZTC-F64 tool.
- **B: Dot S ACT**: Green LED for ZoneLink®.S activity.
  - o Flashes Green with active ZoneLink®.S (Dot S) Traffic
- **C: ZL TC ACT**: Yellow/Green LED for Peer-To-Peer Serial on ZoneLink®TC bus.
  - o Dim Yellow: ViaBus / SDS Terminator is active
  - o Flashes Green with ZoneLink®TC Serial Communication
- **D: CAN ACT**: Green LED for Activity on ViaBus or SDS bus.
  - o Solid Green, flashes off with ViaBus or SDS traffic

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PROTOCOL SPECIFIC APPLICATION NOTES

Application notes for each of the specific fieldbus and configuration protocols are available for download from the Support section of Holjeron.com (https://holjeron.com/support/)

- ZoneLink®.S Interface Mode
- ZoneLink®TC ViaBus Interface Mode
- SDS (Smart Distributed System) Interface Mode

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⚠️ EMERGENCY STOPS AND SAFETY RELAYS

It is generally considered good safety practice to have E-stop and/or safety relays/controllers installed in any conveyor system, especially one with multiple control system voltages. Many state and local regulations/codes require them. Please consult qualified personnel who plan and design safety equipment for machines and systems and are familiar with the regulations governing safety in the workplace and accident prevention.

Warranty/Remedy

Seller warrants its products to be free from defects in design, material and workmanship under normal use and service. Seller will repair or replace without charge any such products it finds to be so defective on its return to Seller within 18 months after date of shipment by Seller. **The foregoing is in lieu of all other expressed or implied warranties (except title), including those of merchantability and fitness for a particular purpose.** The foregoing is also purchaser's sole remedy and is in lieu of all other guarantees, obligations, or liabilities or any consequences incidental, or punitive damages attributable to negligence or strict liability, all by way of example.

While Holjeron provides application assistance, personally and through our literature, it is up to the customer to determine the suitability of the product in the application.

All information contained herein, including illustrations, specifications and dimensions, is believed to be reliable as of the date of publication, but is subject to change without notice.

Complementary Products

Holjeron manufactures a complete line of smart conveyor controls and device for use with SDS fieldbus networks.
To complete your system, have you considered:

- ZoneLink®3 ZPA Controllers for Microrollers and SmartRollers
- ZoneLink®.S Control Modules for 22W and 35W Microrollers w/ Aux I/O
- ZoneLink®TC ZPA Controllers for Microrollers and SmartRollers
- BusBlock®I/O and Control Modules for SDS networks
- Third party SDS devices

To request pricing and availability, or to place an order:
Phone: 503.582.0820
Toll Free: 855.804.6828
E-mail:
General info: info@holjeron.com
Sales: sales@holjeron.com
Support issues: support@holjeron.com

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www.holjeron.com

About Holjeron

Our products are all designed and produced by us
If you need customized solutions, we can do it. We give you the technology that best suits your needs. We understand Common Industrial Protocols (CIP) such as DeviceNet and Ethernet/IP, as well as CANOpen and Smart Distributed System (SDS.) Our engineers can supply the distributed I/O solutions that meet your specific needs.

We push intelligence to the process

Holjeron's smart quick-connect products can reduce wiring and give you diagnostics designed for your material handling system. Our products are designed with your system in mind. Using industry standards, we explore new ways to make things work in industrial automation. We apply the requisite technology to deliver the solution your system needs.

Want to kick around options?

Call us. Where else are you going to find people who love talking about this stuff? And who know enough to be helpful?
The number to connect you to someone who understands your business – 503.582.0820 or 855.804.6828

Membership

Holjeron is an active participant in key industry organizations and standards bodies.

www.odva.org   www.mhi.org

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