



Geotab Truck Solution

Harness Identification and Application

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Harnesses Compatible with IOX-UREADER and IOX-COLD

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IOX-COLD/IOX-COLDRUGGED Harnesses

Harness Naming — Table of Definitions

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IOX-UREADER/GEO-CCIPBOX Harnesses

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Introduction

This document identifies all the harnesses related to the IOX-UREADER/IOX-COLD/IOX-COLDRUGGED, and provides the following information for each harness:

- A description of the harness.
- The length of the harness.
- The purpose of the harness.
- Additional information about installing the harness.

! IMPORTANT: To ensure a proper connection to the different types of vehicles using the harnesses described in this document, refer to the following documents depending on the device you are installing

- [IOX-UREADER - Installation Guide \[PUB\]](#)
- [IOX-COLD](#)
- [IOX-COLD RUGGED](#)

! IMPORTANT: Only use Geotab telematics devices with Geotab-approved harnesses acquired from Geotab-authorized channels. Use of non-Geotab harnesses from unauthorized channels may cause serious safety risks, including fire, and may lead to serious personal injury and/or damage to the vehicle.

! IMPORTANT: **The IOX-COLD, IOX-COLDRUGGED, and their corresponding harnesses are not currently accessible for purchase.**

* **NOTE:** For more information about harness requirements for a specific refrigeration unit, refer to [Cold Chain Harness Compatibility List](#).

Harnesses Compatible with IOX-UREADER and IOX-COLD

HRN-URTACH002-A

Replaces: HRN-URTACH0

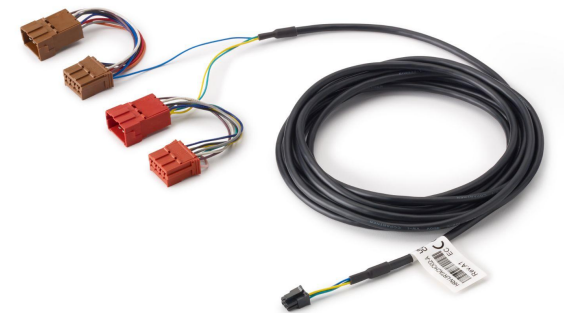
Description: Harness to connect the IOX-UREADER/IOX-COLD to tachographs.

Length: 461 centimeters / 181 inches

Purpose: Allows connection to tachograph via CAN bus (DTCO-C) and K-line/SRE (DTCO-D8). Offers a complete plug-and-play solution in the case that the tachograph CAN C port has an existing connection to a DSRC antenna. It should not be used to connect another telematic device or another vehicle ECU.

Installation:

- (IOX-UREADER) [Connection to Tachograph](#)
- (IOX-COLD) [IOX-COLD - Tachograph Solution Installation Guide](#)



HRN-CL01S2

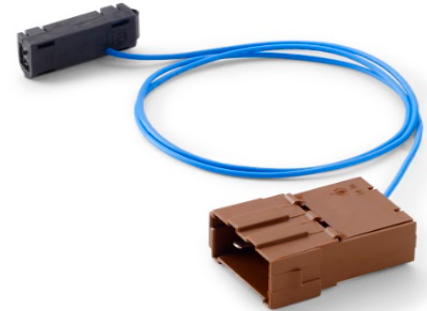
Description: Harness for VDO tachograph frontal connector.

Length: 50 centimeters / 20 inches

Purpose: Allows performance of frontal remote download in tachographs. Must be connected to [HRN-URTACHO](#) or [HRN-URTACHO02-A](#). VDO 1.3 or higher supports remote download via the frontal connector.

Installation:

- (IOX-UREADER) [Front remote download connection](#)
- (IOX-COLD) [IOX-COLD - Tachograph Solution Installation Guide](#)



HRN-URTACHO [DISCONTINUED]

Description: Harness to connect the IOX-UREADER/IOX-COLD to tachographs.

Length: 461 centimeters / 181 inches

Purpose: Allows connection to tachograph via CAN bus (DTCO-C) and K-line/SRE (DTCO-D8).

Installation:

- (IOX-UREADER) [Connection to Tachograph](#)
- (IOX-COLD) [IOX-COLD - Tachograph Solution Installation Guide](#)



IOX-COLD/IOX-COLDRUGGED Harnesses

Harness Naming – Table of Definitions

	Description	Codes
Rugged	Specifies if the harness is required for RUGGED products.	• R – For scenarios where IOX-COLDRUGGED is required. NOTE: This field is not populated for scenarios where IOX-COLD is required.
Category	Specifies the use case or solution of harness.	• CC – Cold Chain
Manufacturer or Function	Specifies the refrigeration unit manufacturer or the function.	• TK – Thermo King • CA – Carrier • HW – Hwasung • LA – LAE Electronics • AC – For scenarios where accessories are connected as door sensors or temperature probes. • TH – For scenarios where Thermographs are required to be connected (Europe only).
Refrigeration unit controller or Model	Specifies the controller or model of the refrigeration unit that the harness connects to.	• No code – Not applicable • TSR – Thermo King T-Series and UT-R • DSR – Thermo King DSR • TG4 – Thermo King ThermoGuard IV / V • TG6 – Thermo King ThermoGuard VI • SR2 – Thermo King Smart Reefer II / III / IV • XAP – Carrier Xarios / Pulsar • NVZ – Carrier Neos / Viento / Zephir • STD – Carrier Standard • ADV – Carrier Advanced • AHA – LAE AH1-5B14L-AG

HRN-CCHW

Description: Hwasung refrigeration unit harness for IOX-COLD.

Length: 350 centimeters / 138 inches

Purpose: Allows RS-232 serial connection to Hwasung refrigeration units to read temperature and diagnostic data.

Installation: [Professional Installation Guide for Cold Chain Solution - Hwasung \[PUB\]](#)



HRN-CCTKTSR

Description: Thermo King TSR-2 and TSR-3 refrigeration unit harness for IOX-COLD.

Length: 1510 centimeters / 594 inches

Purpose: Allows CANBus connection to Thermo King TSR-2 and TSR-3 refrigeration units to read temperature and diagnostic data.

Installation: [Professional Installation Guide for Cold Chain Solution - Thermo King TSR-2 and ...](#)



HRN-CCCASTD

Description: Carrier rigid trucks refrigeration unit harness for IOX-COLD.

Length: 1510 centimeters / 594 inches

Purpose: Allows RS-232 serial connection to Carriers refrigeration units to read temperature and diagnostic data.

Installation: [Professional Installation Guide for Cold Chain Solution - Carrier Supra Units \[PUB\]](#)



HRN-CCTKDSR

Description: Thermo King DSR refrigeration unit harness for IOX-COLD.

Length: 350 centimeters / 138 inches

Purpose: Allows RS-485 ↔ RS-232 connection to Thermo King DSR refrigeration units.

Installation: [Professional Installation Guide for Cold Chain Solution - ThermoKing Direct Smar...](#)



HRN-CCCAXAP

Description: Carrier Xarios and Pulsor refrigeration unit harness for IOX-COLD.

Length: 350 centimeters / 138 inches

Purpose: Allows CAN bus connection to Carrier Xarios and Pulsor refrigeration units.

Installation: [Professional Installation Guide for Cold Chain Solution - Carrier Xarios and Puls...](#)



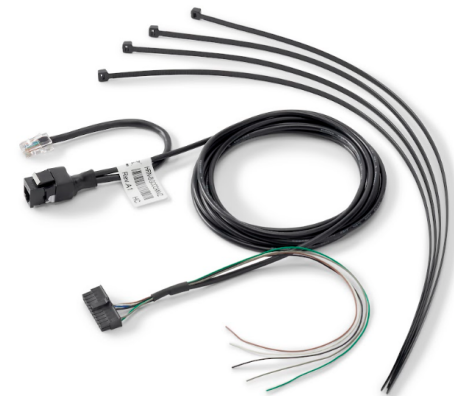
HRN-CCCANVZ

Description: Carrier Neos, Viento, and Zephyr refrigeration unit harness for IOX-COLD.

Length: 350 centimeters / 138 inches

Purpose: Allows I2C connection to Carrier Neos, Viento, and Zephyr refrigeration units.

Installation: [Professional Installation Guide for Cold Chain Solution - Carrier Neos, Zephyr a...](#)



HRN-CCLAAHA

Description: LAE AH1-5B14L-AG refrigeration unit harness for IOX-COLD.

Length: 350 centimeters / 138 inches

Purpose: Allows UART TTL ↔ RS-232 connection to LAE AH1-5B14L-AG refrigeration units.

Installation: [Professional Installation Guide for Cold Chain Solution - GAH Units Containing a ...](#)



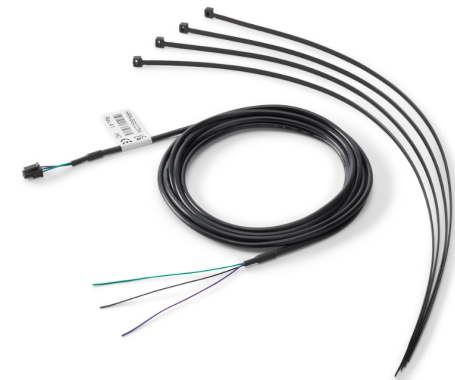
HRN-CCTH

Description: Thermograph RS-232 protocol harness for IOX-COLD.

Length: 350 centimeters / 138 inches

Purpose: Allows the connection of different thermographs.

Installation: [IOX-COLD and IOX-COLD RUGGED - Thermograph Solution Installation Guide](#)



HRN-RCCCAADV

Description: Carrier refrigeration unit harness for IOX-COLD RUGGED.

Length: 306 centimeters / 120 inches

Purpose: Allows RS-232 serial connection to Carrier refrigeration units to read temperature and diagnostic data.

Installation:

- [Professional Installation Guide for Cold Chain Solution - Carrier Vector/Maxima/Ultra ...](#)
- [Professional Installation Guide for Cold Chain Solution - Carrier X2100A \[PUB\]](#)



HRN-RCCTKTG4

Description: Thermo King ThermoGuard IV & V refrigeration unit harness for IOX-COLD RUGGED.

Length: 300 centimeters / 140 inches

Purpose: Allows RS-232 serial connection to Thermo King ThermoGuard IV & V refrigeration units to read temperature and diagnostic data.

Installation: [Professional Installation Guide for Cold Chain Solution - Thermo King Trailers Uni...](#)



HRN-RCCTKTG6

Description: Thermo King ThermoGuard uP VI refrigeration unit harness for IOX-COLD RUGGED.

Length: 305 centimeters / 120 inches

Purpose: Allows RS-232 serial connection to Thermo King ThermoGuard uP VI refrigeration units to read temperature and diagnostic data.

Installation: [Professional Installation Guide for Cold Chain Solution - Thermo King Trailers Uni...](#)



HRN-RCCTKSR2

Description: Thermo King SR2, SR3 and SR4 refrigeration unit harness for IOX-COLD RUGGED.

Length: 322 centimeters / 127 inches

Purpose: Allows CANBus serial connection to Thermo King SR2, SR3, and SR4 refrigeration units.

Installation: [Professional Installation Guide for Cold Chain Solution - Thermo King Trailers Uni...](#)



HRN-RCCTH

Description: Thermograph RS-232 protocol harness for IOX-COLD RUGGED.

Length: 300 centimeters / 140 inches

Purpose: Allows the connection of different thermographs.

Installation: [IOX-COLD and IOX-COLD RUGGED - Thermograph Solution Installation Guide](#)



HRN-RCCAC

Description: Accessories harness for IOX-COLD RUGGED.

Length: 300 centimeters / 140 inches

Purpose: Allows the connection of different accessories such as 1-Wire Temperature Sensors or door sensors.

Installation: [IOX-COLD and IOX-COLD RUGGED - Refrigeration Unit and Accessories Solutions ...](#)



IOX-UREADER/GEO-CCIPBOX Harnesses

HRN-CL03B6

Description: Carrier refrigeration unit harness for GEO-CCIPBOX.

Length: 306 centimeters / 120 inches

Purpose: Allows RS-232 serial connection to Carrier refrigeration units to read temperature and diagnostic data.

Installation:

- [Professional Installation Guide for Cold Chain Solution - Carrier Vector/Maxima/Ultra \[P...](#)
- [Professional Installation Guide for Cold Chain Solution - Carrier X2100A \[PUB\]](#)



HRN-CL03S5

Description: Thermo King ThermoGuard IV & V refrigeration unit harness for GEO-CCIPBOX.

Length: 300 centimeters / 140 inches

Purpose: Allows RS-232 serial connection to Thermo King ThermoGuard IV & V refrigeration units to read temperature and diagnostic data.

Installation: [Professional Installation Guide for Cold Chain Solution - Thermo King Trailers Units...](#)



HRN-CL03B5

Description: Thermo King ThermoGuard uP VI refrigeration unit harness for GEO-CCIPBOX.

Length: 305 centimeters / 120 inches

Purpose: Allows RS-232 serial connection to Thermo King ThermoGuard uP VI refrigeration units to read temperature and diagnostic data.

Installation: [Professional Installation Guide for Cold Chain Solution - Thermo King Trailers Uni...](#)



HRN-CL02S7

Description: Hwasung refrigeration unit harness for IOX-UREADER.

Length: 305 centimeters / 120 inches

Purpose: Allows RS-232 serial connection to Hwasung refrigeration units to read temperature and diagnostic data.

Installation: [Professional Installation Guide for Cold Chain Solution - Hwasung \[PUB\]](#)



HRN-CL03S9

Description: Thermo King TSR-2 and TSR-3 refrigeration unit harness for IOX-UREADER.

Length: 1510 centimeters / 594 inches

Purpose: Allows RS-232 serial connection to Thermo King TSR-3 refrigeration units to read temperature and diagnostic data.

Installation: [Professional Installation Guide for Cold Chain Solution - Thermo King TSR-2 and ...](#)



HRN-CL03S10

Description: Carrier rigid trucks refrigeration unit harness for IOX-UREADER.

Length: 1510 centimeters / 594 inches

Purpose: Allows RS-232 serial connection to Carriers refrigeration units to read temperature and diagnostic data.

Installation: [Professional Installation Guide for Cold Chain Solution - Carrier Supra Units \[PUB\]](#)



HRN-CL03S51

Description: Thermo King SR2, SR3 and SR4 refrigeration unit harness for GEO-CCIPBOX.

Length: 322 centimeters / 127 inches

Purpose: Allows RS-232 serial connection to Thermo King SR2, SR3, and SR4 refrigeration units.

Installation: [📖 Professional Installation Guide for Cold Chain Solution - Thermo King Trailers Uni...](#)



HRN-HTKDSR

Description: Thermo King DSR refrigeration unit harness for IOX-UREADER.

Length: 400 centimeters / 157 inches

Purpose: Allows RS-485 ↔ RS-232 connection to Thermo King DSR refrigeration units.

Installation: [📖 Professional Installation Guide for Cold Chain Solution - ThermoKing Direct Smar...](#)



HRN-HLAEGAH

Description: LAE AH1-5B14L-AG refrigeration unit harness for IOX-UREADER.

Length: 360 centimeters / 142 inches

Purpose: Allows UART TTL ↔ RS-232 connection to LAE AH1-5B14L-AG refrigeration units.

Installation: [📖 Professional Installation Guide for Cold Chain Solution - GAH Units Containing a...](#)

