

PRODUCT GUIDE

FIELD-IQ ISOBUS

WHAT IS ISOBUS?

ISOBUS is an industry standard of communication that enables control of an implement, independent of manufacturer.

A single ISOBUS display can replace the multiple implement and tractor-specific displays needed for your operation. This eliminates the complexities of non-standardized electronics, data, communication, and user interfaces.

Our solution utilizes an Electronic Control Unit (ECU) to monitor and control the implement.

The ECU module mounts directly to the implement and simply requires a one-time setup for your application. The harnessing allows the ECU to interface with major display brands, such as PTx Trimble and other third-party displays. The user can then monitor real-time field data and control the application via a virtual terminal on the display.



FEATURES & BENEFITS

Harness control of your equipment—no matter the make or brand

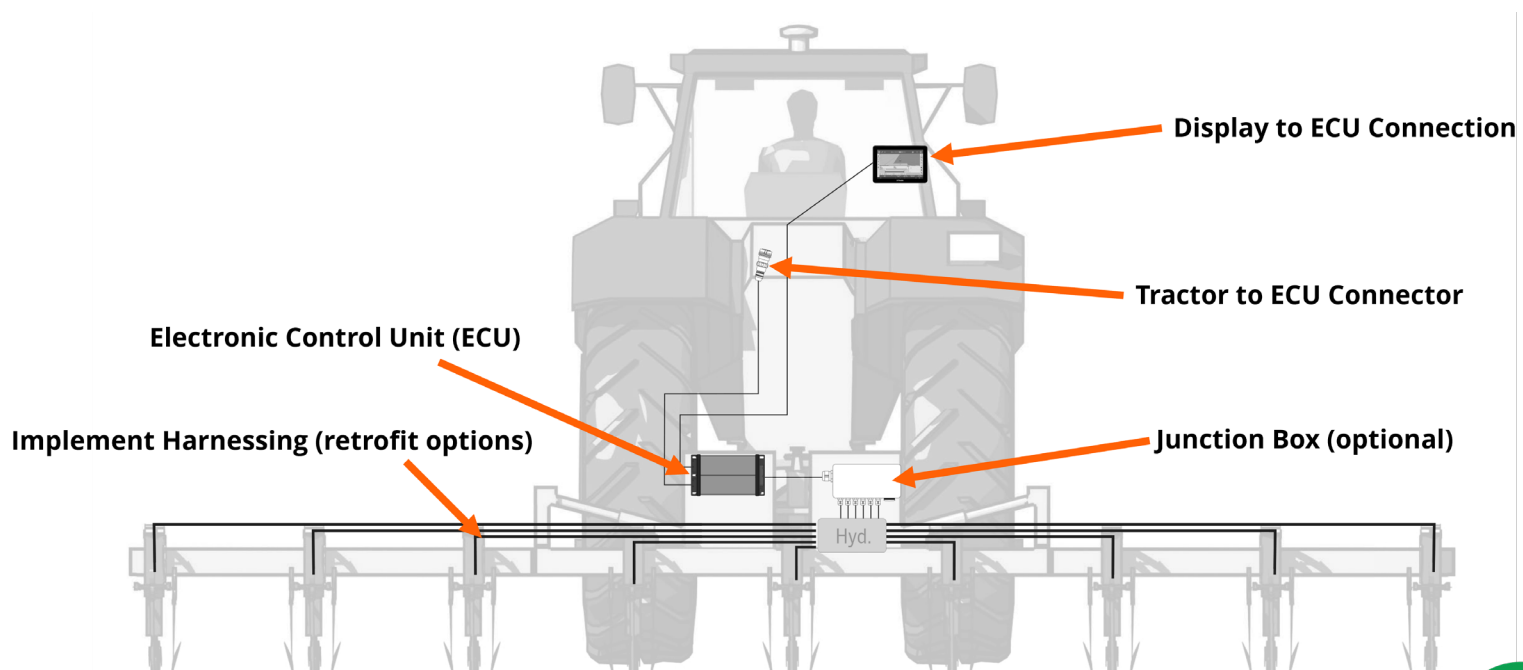
- **One-Time Configuration**
All implement configurations stay with the implement.
- **Retrofit your Existing Equipment**
You no longer need to buy new equipment to use precision ag technology. Take advantage of PTx Trimble's retrofit options to fit your existing equipment.
- **Non-Standard Configuration Options**
Have a custom equipment set-up? We've got options for you!
- **Machine Controls**
Boom folding, hydraulic integration, lights, pneumatic controls, advanced sensors, etc.
- **Monitor Application Rates**
- **Rate/Section Control with Manual or Prescription Controls**

PLUG & PLAY FUNCTIONALITY

Plug directly into your tractor's ISO connection port, making the install quick and seamless.

Take advantage of the ability to plug into any brand, while having the flexibility to fit PTx Trimble's harnessing options to any type of equipment.

BASIC SETUP:



ISO ACRONYMS

Understanding the abbreviations

UT stands for Universal Terminal.

- ISOBUS pop-up on the side of the screen

VT stands for Virtual Terminal.

- How we visualize the implement through the screen

NOTE: UT and VT can be used interchangeably to describe the same functionality across displays

TC stands for Task Controller.

- Gives you as-applied mapping and automatic rate and section control

NOTE: To unlock Task Controller on the display, a license may be required. Standard TC functions on the implement do not require an unlock.

Aux-N stands for Auxiliary Control "new"

- Controlling implement functions by means of an additional control element, such as a joystick. Aux-**N** refers to the new certified compatibility standard.



ISOBUS AEF CERTIFICATION- A SOLUTION YOU CAN TRUST

The ISOBUS certification requires testing of hardware and software according to AEF guidelines for compatibility with the ISOBUS standard. Count on quality!

For more details on ISOBUS compatibility/functionality, check out the [AEF ISOBUS Database](#).



ISOBUS ECU CAPABILITIES:

The following features apply to all PTx Trimble ISOBUS solutions.

- **Automatic section control with ISO Task Controller**
- **ISO and radar/wheel speed inputs**
- **Transfer of target rates from prescription maps**
- **As-applied data from the ECU to the display for maps/record keeping**
- **VT/UT functions**
- **Work results documentation**

ISOBUS SOLUTION HIGHLIGHTS:

SEEDER/PLANTER

- Grouping of rows into sections
- Monitoring and shutoff for each individual row
- Seed monitoring (population, skips, etc.)
- Monitoring of the fan speed
- Control of the tramline valves

SPREADER

- Spreader and dry manure application control
- Display of current bin contents
- Closure of valves at defined speed



SPRAYER/ LIQUID

- Standard configuration of 9 sections (max 18) and up to 5 hydraulic functions.
- Boom and Axle Frame Control
- Servo, PWM, Flow, and Pressure-based rate control options
- Master/Dump valve
- Pressure sensor, work switch & remote master input options
- Aux-N functionality
- Recirculating booms and Sparge valve controls
- Support of NH3 (Liquid ECU only)
- System can be extended to include up to 8 ECUs.

SLURRY

- Control of various mounted implements:
 - Arable injector
 - Grassland injector
 - Trailing hose distributor
 - Trailing shoe distributor
 - Splash plate
- Control of up to 18 sections
- Control of various filling arms (front, top, side)
- Monitoring of the application

WEATHER STATION

Monitor real-time weather conditions!

- True wind
- Apparent wind
- Gust speed
- Temperature
- Relative air humidity
- Relative air pressure
- Dew point
- Drift
- Fire index



ORCHARD/VINEYARD

- Operating different spraying areas via the boom display
- Outer sections switch off with analog sensors
- Telescoping boom adjustment related to the row spacing
- Recycling wall analog sensors with auto movements
- PWM boom folding (available upon request)
- Leftside cover
- Tank management
- Full management of flow and pressure regulation
- Integration of ultrasonic sensor feedback
- Fan control
- Automatic headland detection