

## 2.5 | System Components

A **Level COMMAND** system consists of multiple hardware and software components depending on machine configuration and enabled automatic control functions.

### Required Components

The following components are required for normal **Level COMMAND** operation.

#### COMMAND ECU

The **COMMAND** ECU provides hydraulic control, machine interfacing, sensor monitoring, and automatic control management.

The ECU communicates with **Level COMMAND** and connected machine systems during operation.

#### GNSS Receiver System

A compatible RTK-capable GNSS receiver system is required for machine positioning and automatic control.

Supported receiver compatibility may vary depending on installed **COMMAND** hardware and machine configuration.

#### Operator Display Device

**Level COMMAND** operates on a compatible display device used for:

- project management
- terrain visualisation
- diagnostics
- and operator interaction

The display device communicates with the **COMMAND** ECU during operation.

**Level COMMAND** is primarily deployed on ruggedised RuggON tablet platforms including the PX501 and SOL7 due to their environmental durability, sunlight readability, and suitability for machine-control applications.

## Hydraulic Control Hardware

Compatible hydraulic control valve hardware is required for automatic implement movement.

Depending on machine configuration, hydraulic interfaces may include:

- SCVs / auxiliary control valves
- proportional solenoid valves
- and ratiometric load sensing proportional valves

## Optional Components

Additional components may be installed depending on machine configuration and enabled functionality.

## Cross-Slope Sensors

Cross-Slope-capable configurations require compatible implement roll-angle feedback sensors.

Supported Cross-Slope feedback sources currently include:

- T3RRA TARS IMU systems
- and compatible StarFire internal roll-angle sensors

## Additional Operator Controls

Optional operator control devices may include:

- External Engage switch,
- Joystick controls

# Vehicle Data Interfaces

Supported machine configurations may include additional vehicle communication interfaces such as:

- ISOBUS
  - J1939
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