



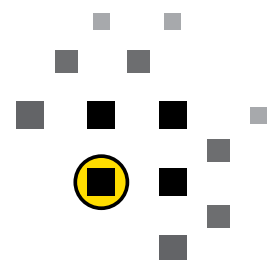
**VERSATILITY IN A COMPACT DESIGN**

# UniPOD



**ORIGINAL  
OEM**

- variable rate controller
- autosteer controller
- spray boom & rate controller
- custom & OEM features
- complete ODM solution



## Setup Example

The UniPOD is re-configurable to suit many different requirements. Some examples of how it could be used:

### Spray Control

A single UniPOD could be used to monitor pressure and control 12 Spray Sections, or 8 Spray sections plus dump and line valves and a bidirectional control valve.

- To add more sensor inputs, sections or control valves, simply add one or more UniPODs to the CANBUS.

### Variable Rate Control

Control 3 bidirectional flow valves, or 6 PWM flow valves, as well as measuring shaft speeds and bin level sensors.

- To add more functions, simply add one or more UniPODs to the CANBUS.

### Guidance and Steering

Control a bidirectional PWM hydraulic valve while also controlling Load Sense, or a Voltage over Hydraulic valve.

In-built control loops allow for open or closed-centre operation with a Wheel Angle Sensor. Adjustable manual override is also in-built.

Safety road-mode lockout can be managed electrically.

## Example Connections

Pin	Function	Vehicle / Implement Steering	Spray	VRC
A1	GND	GND	GND	GND
A2	GND	GND	GND	GND
A3	+12V In	+12V In	+12V In / (Pressure Sens +12V)	+12V In / (Pressure Sens +12V)
A4	+12V In	+12V In	+12V In / (Pressure Sens +12V)	+12V In / (Pressure Sens +12V)
A5	CAN +	CAN +	CAN +	CAN +
A6	CAN -	CAN -	CAN -	CAN -
A7	Sensor GND	Wheel Angle Sensor GND	Liquid Pressure Sensor GND	Air Pressure/Bar Sensor GND
A8	Sensor +5v Out	Wheel Angle Sensor +5v Out		Button +5V Out
A9	A/D 1 (0-5V)	Wheel Angle Sensor (A/D)	Liquid Pressure Sensor (A/D)	Air Pressure Sensor (A/D)
A10	A/D 2 (0-5V)	Wheel Angle Sensor 2 (A/D) or Manual Left/Right/Up/Down POT		Air Pressure 2 Sensor or Calibrate Start/Stop Buttons
A11	In 2 / Frequency / A/D (0-5V)	Engage Switch 1	Flow Sensor	Fan Speed Sensor
A12	In 1 / Frequency / A/D (0-5V)	Engage Switch 2	Dump Run Switch	Fan 2 or Ground Speed Sensor
B1	I/O 1 / PWM / Current / Volt	Valve PWM Left	Flow Valve +	Valve 1+ / PWM / Current / Volt
B2	I/O 2 / PWM / Current / Volt	Valve PWM Right	Flow Valve -	Valve 1 -
B3	I/O 3 / PWM / Current / Volt	Valve 1 Voltage - Sauer Danfoss / JD Greenstar	Valve 1	Valve 2+ / PWM / Current / Volt
B4	I/O 4 / PWM / Current / Volt	Valve 1 +12V Load Sense	Valve 2	Valve 2 -
B5	I/O 5 / PWM / Current / Volt	Valve 2 PWM Left/Up	Valve 3	Valve 3+ / PWM / Current / Volt
B6	I/O 6 / PWM / Current / Volt	Valve 2 PWM Right/Down	Valve 4	Valve 3 -
B7	I/O 7 / PWM / Current / Volt	Valve 2 Voltage - Sauer Danfoss / JD Greenstar	Valve 5	Shaft 1 Speed/Position Sensor
B8	I/O 8 / PWM / Current / Volt	Valve 2 +12V Load Sense	Valve 6	Shaft 2 Speed/Position Sensor
B9	I/O 9 / A/D (0-30V)	Manual Up/Left	Valve 7	Shaft 3 Speed/Position Sensor
B10	I/O 10 / A/D (0-30V)	Manual Down/Right	Valve 8	Bin 1 Level / Shaft 4 Speed
B11	I/O 11 / A/D (0-30V)	Hitch Up	Valve 9 / Dump Valve	Bin 1 Level / Shaft 5 Speed
B12	I/O 12 / A/D (0-30V)	Hitch Down	Valve 10 / Line 2 Valve	Bin 1 Level / Shaft 6 Speed

## Technical Specifications

Parameter	Qty	Specification
Power Supply	2	9-28V, 7.5A per pin = 15A max
CANBUS	1	(Standard) 250kbps typical. J1979/ISO11783 compatible
Bluetooth	0/1	(Optional)
WiFi	0/1	(Optional)
RS232	0/1	(Optional instead of CANBUS)
A/D Inputs	2	0-5V 10bit
General / Frequency / A/D Inputs	2	0-28V, 0/10-1000Hz (DC or AC coupled), 3V pull-up or 0V pull-down option, A/D 0-5V 8bit
I/O / PWM Outputs	8	Logic input 0-28V, 3V pull-up or 0V pull-down option, High/Low output or PWM Output Voltage/Ratio/Current controlled to 2.5A per pin (14A max total for all pins)
I/O / A/D	4	Logic input 0-28V, 3V pull-up or 0V pull-down option, A/D 8bit 0-28V, High/Low output

Some specifications are subject to change without notification