

The DUET radio receiver is our largest one-box radio receiver, with a massive 48 I/O in it's low-profile enclosure. It's overpowered for our industry - running on dual ARM processors with tons of horsepower. It's highly I/O dense, packing up to 48 outputs in a robust package, and then urethane potted for severe duty use - vibration and weather are no longer issues. Of the 48 outputs, two are available as current-regulated PWM, 34 can be straight PWM without feedback, and we can configure in analog and digital inputs as well. RS-232 is on board for a variety of programming interfaces, as is CAN (typically via SAE-J1939), and the option for a display at the receiver. External connections are made via jacketed cable.

Variable Voltage Outputs	38 Maximum, 0-30V (other ranges available)		
Digital Outputs	48 Maximum		
PWM Outputs	36 Maximum (2 current regulated, 34 non-current regulated) 5A max, sourcing		
Quadrature Inputs	None		
Frequency Inputs	None	12/24V nominal input range with protection for overvoltage/transient spike	
Digital Inputs	8 Maximum		
Analog Inputs	8 Maximum, 0-supply voltage (12/24VDC), 12-bit resolution with on-board +5VDC regulated analog reference for sensors. Inputs are protected for overvoltage/transient spikes		
Supply Voltage	12V/24V nominal (9V – 30VDC)		
Protocols	Serial: RS-232, CANbus: SAE-J1939, RF: 900MHz FHSS or 2.4GHZ DSSS		
I/O:			
Storage Temperature	-55° to +85° C	Certification	FCC, IC, C-Tick, others on request
Operating Temperature	-40° to +85° C	Housing Material	Encapsulated UL94 ABS
Weight	1.0 lb.	Ingress Protection	IP67
PHYSICAL			

^{*}These are maximums only. Using all the inputs or outputs of one type may limit other I/O. Please contact us for no-charge application support.

WIRELESS:			
Frequency	900MHz FHSS, 2.4GHz DSSS. With powers up to 100mW		
Operating Range	300ft, 1000ft, or Half Mile (nominal)		



