

MAGNUM

RADIO TRANSMITTERS







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Features

Kar-Tech's MAGNUM series of transmitters are ergonomic solutions for those customers who are looking for a belt wearable (via belt straps or a belt clip) or dash-mount enclosure from which to control their machines. The enclosure is full of space to fill with toggle switches, pushbuttons, thumbwheels, small joysticks and other controls. The MAGNUM is a rock-solid, sealed enclosure designed to take a beating in the mobile environment. With a rechargeable battery the MAGNUM can offer up to 20+ hours of continuous usage and a 1 hour fast charge.

General		Mini Receiver	
Weight	1.6 lb.		I/O Up to 9 solid state outputs, 5A max
Operating Temperature	-40° to +85° C		Frequency 900 MHz FHSS, 10mW output power, -100dBm receiver sensitivity
Storage Temperature	-40° to +100° C		Range 100m nominal, greater line of sight
Ingress Protection	IP65 nominal – varies with custom configurations		Power 12/24 VDC nominal, +9 to +35 VDC min/max
Housing Material	High impact thermoplastic		Physical 2.5" x 2.5" x .9", 1.8 lb., Encapsulated UL94 ABS plastic
Control Options	Up to 3 mini joysticks, 8 toggle switches, or 5 thumb wheels, E-Stop switches, pushbuttons, and side mounted keyswitches or pushbuttons available as well.	VC-93/99/125 Receiver	
Certification	FCC, IC, C-Tick, others on request		I/O Up to 36 inputs (analog/digital) and 36 outputs (analog/digital), 5A max, with 100VDC protection
Power			Frequency 900 MHz FHSS, 33mW output power -114dBm receiver sensitivity 2.4 GHz DSSS, 100mW output power -92dBm receiver sensitivity
Battery Type	Internal rechargeable smart NiMH battery or 4 AA in a sealed compartment		Range 300m nominal, greater line of sight
Operating Time	Depends on configuration, 20-90 hours		Power 12/24 VDC nominal, +9 to +35 min/max
RF2CAN Receiver			Physical VC-93 - 5.2" x 4.6" x 1.4", 0.8 lb., High temperature nylon VC-99/125 - 5.55" x 5.75" x 2.02", 1.0 lb., Glass-filled polymer
	Frequency 900 MHz FHSS or 2.4GHz DSSS	Industrial Receiver	
	Output CAN - SAE-J1939 & CANOpen		I/O Up to 9 relay outputs, rated at 16A per
	Range 300m nominal		Frequency 900 MHz FHSS, 10mW output power, -100dBm receiver sensitivity
	Power 9 - 30VDC		Range 100m nominal, greater line of sight
	Physical 3.5" x 2" x 4.1", 0.8 lb., UL94 - HB High impact plastic		Power 110 - 265 VAC
			Physical 8.6" x 4.7" x 3.5", 1.65 lb., Polycarbonate enclosure

