Carlson MC-8
Carlson Machine Control’s Newest Control Box

Experts in Machine Control Applications since 1996
- Mining
- Landfill
- Piling
- Dredging
- Construction
- Contract Drilling
- Custom Applications

- Full daylight readable screen
- Wide operating temperature range
- IP65 rating
- Highly ruggedized and lightweight
- Convenient 8” profile

For more information, visit www.carlsonsw.com or call 800-989-5028
Display
- Viewable Area: 4:3 aspect ratio, 162 mm (W) x 121.5 mm (H) 8.0-inch (20.32 cm) diagonal.
- Native Resolution: 800 x 600; dot pitch: 0.0675mm x 0.2025mm.
- Brightness: 1,400 nits typical. This value only applies to indoor performance, the effective outdoor performance is greater than 1,600 nits. (1 nit = 1 Cd/m2.) The panel PC also supports automatic backlight control using an inbuilt light sensor and is configurable through a PC utility.
- Touch: 5-wire resistive on 1.8mm glass. Supplied with surface protection film fitted.

Video and Audio
- Video: Intel® Graphics Core with 2D and 3D hardware accelerator. Support for high performance hardware MPEG-2 decoding, WMV9 (VC-1) and H.264 (AVC) support Blu-ray support @ 40 MB/s, hardware motion compensation.
- Sound: High Definition Audio Interface with dual integrated stereo speakers.

Wireless Connectivity
- GPS: Optional 72-Channel UBlox NEO-M8 GPS receiver. Supports: GPS/QZSS L1/C/A, GLONASS L1/0F, BeiDou B1, SBAS L1/C/A; WAAS, EGNSOS, MSAS, External SMA antenna connector, with Active Antenna support for enhanced GPS reception.
- Bluetooth: Optional Class 2 Bluetooth V2.0 support with suitable WiFi combo card.
- 3G: Optional Quad Band 3G /4G 900/1800/850/1900/2100 module with Micro SIM and external SMA antenna support.
- Wireless LAN: Optional IEE 802.11 AC/a/b/g/n module with dual external SMA antennas.
- Other: Other Full Length PCIe compliant wireless cards can be fitted at time of manufacture. Contact Carlson for more information.

Physical Characteristics
- Mounting: 75mm VESA mount.
- Dimensions: 220mm x 193mm x 55mm.
- Weight: Up to 1.5kg.
- Shipping: Up to 1.65kg.
- Environmental: Operating: -40°C to +70°C, Storage: -40°C to +85°C. 10% to 90% RH, non-condensing.
- Certification: C-tick. Other certifications available upon request.
- Protection: IP65 front and rear.

Interfaces
- COM: Three RS-232 ports available with QuickConnect 2 interface cable. Three full function USB 2.0 ports.
- USB: One full function USB 2.0 port available with QuickConnect 4 interface cable. Two full function USB 2.0 TYPE A ports available on the rear and front edge.
- LAN: One 10/100 Base-T LAN port available with QuickConnect 4 interface cable.
- Digital I/O: Two independent digital inputs and two independent digital outputs with QuickConnect 1 break out cable. Two CAN Bus2.0b with J1939 protocol with QuickConnect 3 interface cable.
- CAN / Vehicle / Power: Two 12v DC internally fused outputs to power CAN devices (up to 100mA per device). Other CAN Bus protocols available. Contact Carlson for more information.
- Video Capture: One Composite Video Capture: NTSC, PAL-B, PAL-D, PAL-G, PAL-I, PAL-K through Connector 1 with QuickConnect 1 cable.
- Function Keys: Power on/off, backlight brightness up/down, and volume up/down. Function keys can be re-assigned in software. Custom labeling of buttons available, minimum order quantities may apply.

Power
- Power Supply: Input voltage range 8 VDC to 39 VDC.
- Power Consumption: 33w Max. 20w Nominal.
- Accessory Control: The panel PC has an accessory input for power on/off control through the QuickConnect 1 break out cable.
- UPS: Internal 7.2Wh Uninterruptible Power Supply (UPS) providing up to 30 minutes of run time.
- Transient Protection: Load dump and other transients specified in ISO-7637.