SCALABILITY

CP North America provides a large array of Ground Control Systems to cover a spectrum of deployment sizes and computing requirements. These range from the ultra-portable GCS2 handheld systems to the stackable MTCS modular rackmount units. The GCS2 allows for a full-fledged portable system with built-in controls for unmanned vehicles and aircraft. Moving up to the MTP system allows for the equivalent of a standard desktop computing system complete with displays and input devices, all self-contained in a transportable and rugged form factor. Finally, the MTCS modular rackmount systems feature a highly customizable platform built in a rugged, transportable enclosure that allows for systems with all the computing power, networking capability, and more that one would expect from a more traditional rackmount computing system.

CP North America has the portable, rugged solution for every ground control system need, regardless of the power or size requirements.

ENGINEERED TO YOUR SPECIFICATIONS

- In-house engineering department
- Design and build of rapid prototypes. Experience with solving difficult customer application problems through knowledge of the industry and custom system design and manufacturing capability
- Our Engineers use Solid Works 3D CAD modeling software for mechanical design and thermal simulation
- Design experience with MIL-STD-167, MIL-STD-461, MIL-STD-810, and MIL-S-901, in addition to FCC, UL, CE, and country specific agency requirements

REVISION CONTROL & CONFIGURATION MANAGEMENT

- Our Program Managers will assure your products are revision controlled for the life of the program
- Configuration Management to assure TAA Compliance and system compatibility
- One part number for life of the program
- Counterfeit and obsolescence management

FACILITY AND TEST

- All integration work is performed in a state-of-the-art, ESD-controlled facility
- Our facility has 50,000 sqft and has dedicated areas for manufacturing and engineering
- Operate to anti-static standard ANSI/ESD S20.20-2007 and electronics assembly standard IPC-A-610, Revision E-2010

QUALITY COUNTS

- ISO 9001:2015 Certified
- 100% system inspection before shipment
- All integrated systems undergo a rigorous system test and burn-in before shipment to the customer
- 5-year warranty on all servers and 3-year warranty on LCD monitor products
- TAA compliant
- Built in the USA

CP North America
2620 Deep Well Ranch Rd
Prescott, AZ 86301

GROUND CONTROL SYSTEMS

CP North America's expeditionary workstations and portable ground control tablet computing systems provide a platform for versatile, high speed processing capabilities in a mobile military-grade system. Offered in assembled handheld tablet, transit case, and portable "briefcase" form factors, these ground control and computing systems are the ideal solution for a mobile and versatile ground station application while out in harsh, real-world environments. The workstations and systems built by CP North America can be customized to meet the specific needs of the operators with optional additions such as capacitive touchscreens, specialized input ports, switches, routers, data links, or other integrated 3rd-party equipment for a fully mobile all-in-one solution.

Who We Are

CP North America designs, fabricates, and integrates standard and customized high-performance computing platforms and LCD monitors for military, industrial, and commercial applications.

Using COTS components, CP North America provides solutions for customers who need reliable systems that will operate in a variety of harsh conditions and who require revision control and hardware consistency for multi-year programs.

CP North America is an ITAR Registered and ISO 9001:2015 Certified business that has been operating for over twenty years.

Assembled in the USA
ISO 9001:2015 Certified
ITAR Registered

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MTCS | RUGGED GROUND CONTROL STATION

These systems offer a high-performance desktop or server-class computing systems complete with displays and input peripherals for deployment in the field.

They are designed to provide deployable networks, Rugged Cross Domain Solutions, and a full network architecture to deployed units. Thanks to the standard rackmount interior configuration of our transit case solutions, CP North America can offer all manner of rackmount computing, networking, power, display, and input options to meet the needs of our customers. The processing capabilities available not only support the ground station operations themselves but can also provide the support of an entire Tactical Operation Center. High-quality military-grade components are used throughout to maintain the highest MTBF's. The rugged workstations are intuitive to use, straightforward to install, and are designed to meet MIL-STD's to survive in the toughest deployable environments. Power is tailorable based on customer requirements for 110-240 AC or MIL-STD-175 and MIL-STD-704, which includes 28V DC vehicle power. MTCS Systems are fully customizable rackmount computing units and can be designed with any components needed to meet the needs of the user. Each transportable unit can have up to 8U of equipment and each unit is stackable for even larger and more complex system deployments. Component options include Server computers, Slide-out/Folding multi-displays, Input devices, Power distribution and backup, Storage arrays, Data Link Devices, and Networking switches.

GCS2 | HANDHELD CONTROL SYSTEM

CP North America's GCS2 series ground control systems provide a platform for versatile, high-speed processing capabilities in a rugged handheld tablet system. Offered with minimized (GCS2-M) and advanced control layouts (GCS2-G), these high-performance tablet systems are the ideal solution for a mobile and versatile ground station application while out in harsh, real-world environments. The combination of the ultra portable form factor and incredible processing power allow the GCS2 to have an excellent balance of SWaP(Size, Weight and Power). The systems can be customized to meet the specific needs of the operators with optional inputs including CANBUS, USB, RS-232, GPS and more for a capable all-in-one mobile solution. High-quality military-grade components are used throughout to maintain the highest MTBF's. Our rugged GCS systems are builty to be intuitive to use while meeting MIL-STD's to survive in the toughest deployable environments.

MTP | PORTABLE CONTROL STATION

CP North America provides Portable Computing Systems and solutions. Our systems come in both Standard industrial grade solutions as well as Rugged military grade systems. Portable systems enable a complete high-performance desktop or server class computing systems complete with displays and input peripherals for deployment in the field. Systems built by CP North America can be custom designed to meet the specific needs of the customer with optional additions such as capacitive touchscreens, specialized input ports, etc. Systems can be scaled up or down in size to match the demands of the application, with sizes ranging from compact desktop sized systems with a single 17" display up to a large scale 4U-equivalent system with triple 24" Hi-Bright displays.

CP North America's Portable systems are designed and built to meet the most demanding of portable computing applications.

SPECIFICATIONS

	GCS2	MTP	MTCS
CPU	Intel i5	Up to Dual Intel Xeon or AMD EPYC	The MTCS is a custom integrated rackmount computing platform and can therefore be fully spec'd to meet the requirements of each application. Reach out to our team for more details.
MEMORY	8GB LPDDR3	Varies by configuration ECC and non-ECC options available	
DISPLAY	Up to 10.1" touchscreen	Up to 3x 24" displays Touchscreen optional	
STORAGE	Up to 1TB SSD	Varies by configuration M.2, 2.5" and 3.5" options available	
I/O	Touchscreen Joysticks Control buttons Gigabit Ethernet USB 2.0 Data Link Additional options available	Full-sized Keyboard in IP67 compliant casing, trackball or trackpad available. Optical drive USB 3.0 Gigabit Ethernet Data Link Additional options available	

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