

MTP | RUGGED PORTABLE COMPUTER



MILITARY PORTABLE

The MTP portable computer system is a rugged, high-performance computing platform contained in the highly versatile “lunchbox” style form factor, allowing for a self-contained computing unit complete with three high definition displays and human input devices. The MTP is built to CP Technologies’ high standard of ruggedness and will meet or exceed MIL-spec levels of performance in demanding environments. Additionally, the MTP may be configured with COTS componentry, allowing each unit to meet the levels of performance needed without compromising on its durability or its portability. All this is backed by CP Technologies’ 5-year warranty, revision control and configuration management programs to ensure adequate support for the product throughout the life of the program.



FEATURES

- Single or Triple Monitor Configuration
- Formed and machined 5052-H32 and 6061-T6 aluminum alloy construction
- Detachable Sealed IP65 Keyboard with Touch Pad
- 4x removable drive bays

APPLICATIONS

Airborne Operations
Land-based Operations
Seaborne Operations
Telemetry
Diagnostics

Simulation
C4ISR
Communications
Imaging
Persistent Surveillance

UAVs
Automation
Severe Environment Operations

Who We Are

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

Using COTS components, CP Technologies 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 Technologies is an ITAR Registered and SBA-certified small business that has been operating in Southern California for over twenty years.

Assembled in the USA
ISO 9001:2015 Certified
ITAR Registered

CP Technologies
10840 Thornmint Road
San Diego, CA 92127
cp-techusa.com
858.571.4330

TECH SPECS



DISPLAY

PANELS	(x3) 18.5" Full HD (1920x1080) LCD Panels mounted in a co-planar fashion LCD Displays fold and lock into place for transport
DISPLAY ENHANCEMENTS	3mm smudge-resistant AR coated soda lime float glass Optional EMI shielded cover glass
CONTRAST RATIO	1000:1
VIEWING ANGLE	80° (L/R/U/D)
RESPONSE TIME	25ms
BRIGHTNESS	400 cd/m2
COLORS	16.7M

COMPUTER

CPU	Up to Intel Core i7 or Xeon E3
MEMORY	(x4) DIMMs of DDR4 memory, up to 32GB Max Capacity
STORAGE	(x2) sealed SATA III drives (x4) removeable SATA III drive bays
RAID OPTIONS	JBOD, RAID 0, RAID 1
EXPANSION SLOTS	(x1) PCIe x16 (x1) PCIe x4 (x2) PCIe x1 (x3) PCI
LAN	(x1) RJ45 Gigabit Ethernet (second port optional)
I/O	DB-9 RS232 serial USB 3.0 USB 2.0
INPUTS	Detachable 97-Key sealed touchpad keyboard featuring IP67 dust and splash resistance and green LED backlighting.
POWER	Integrated AC wide ranging power supply with rear mount external MIL-SPEC locking connector. Also available in wide-range DC input.



TECH SPECS

CHASSIS SPECIFICATIONS

DIMENSIONS	19.5" x 12.1" x 14.6" (495.3mm X 307.34mm X 370.84mm) Max deployed width: 56.5" (1435.1mm)
WEIGHT	40 lbs (approximate weight. Varies with configuration)
CONSTRUCTION	Formed and machined 5052-H32 and 6061-T6 aluminum alloy construction
POWDERCOATING	Black per MIL-PRF-24712, Type IV, Class 3, Cardinal C241-BK110 polyester semi-gloss, fine texture
PLATING	Chem-Film per MIL-C-5541F, Type II, Class 1A

HARSH ENVIRONMENTS

Designed to meet or exceed MIL-STD-810G to the below specifications.

ALTITUDE	12,000 ft Operational, 40,000 ft Storage MIL-STD-810, Method 500.6
HIGH TEMPERATURE	60°C Operational, 70°C Storage MIL-STD-810, Method 501.6
LOW TEMPERATURE	-10°C Operational, -40°C Storage MIL-STD-810, Method 502.6
HUMIDITY	5-95% Non-condensing MIL-STD-810, Method 507.6
BLOWING SAND AND DUST	MIL-STD-810, Method 510.6
TRANSPORT VIBRATION	MIL-STD-810, Method 514.7
BENCH HANDLING SHOCK	MIL-STD-810, Method 516.7 Procedure VI

QUESTIONS?

Reach out to us at
cp-techusa.com
or call 858.571.4330

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 23,000 sqft and has dedicated 12,000 sqft to manufacturing and 3,000 sqft to 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 system test and burn-in before shipment to the customer
- Assistance with 3rd party verification of system specifications
- 5-year warranty on all servers and 3-year warranty on LCD monitor products
- TAA compliant
- Built in the USA

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