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	Simulation	UAVs
Land-based Operations	C4ISR	Automation
Seaborne Operations	Communications	Severe Environment Operations
Telemetry	Imaging	
Diagnostics	Persistent Surveillance	

Who We Are

Assembled in the USA
ISO 9001:2015 Certified
ITAR Registered

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 ISO 9001:2015 Certified business that has been operating in Southern California for over twenty years.

CP Technologies
2620 Deep Well Ranch Rd
Prescott, AZ 86301
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	Intel Core or Xeon options available
MEMORY	(x4) DIMMs of DDR4 memory, varies by configuration
STORAGE	(x2) sealed SATA III drives (x4) removeable SATA III drive bays
RAID OPTIONS	JBOD, RAID 0, RAID 1
EXPANSION SLOTS	Up to (x7) Expansion card slots
LAN	(x1) RJ45 Gigabit Ethernet, varies by configuration
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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