COMBAT PROVEN

TEC | TACTICAL EMBEDDED COMPUTER

SMALL EMBEDDED SOLUTIONS

Mission computers are an essential element to today's state-of-the-art military platforms. The Tactical Embedded Computer system is a rugged series of mission computers designed to take on the toughest of modern combat environments while providing the high levels of computing performance demanded by today's military. Using commercial off-the-shelf (COTS) components on CP Technologies' small form factor platform, the TEC system is built to meet our customer's specifications and are backed by our standard 5-Year warranty, revision control and configuration management to ensure long-lasting support for the life of the program.

REGULATORY CONFORMANCE

- RoHS
- REACH
- TAA compliant configurations available

APPLICATIONS

- Information Management
- Mission Processing
- Sensor Processing
- Display Processing

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

COMPUTER SPECIFICATIONS

ARCHITECTURE	COM Express
PROCESSOR	Intel Core or Xeon
MEMORY	Varies by configuration
STORAGE	Internal SSD (up to 4 TB)
VIDEO	x2 DVI (configurable)
I/O	Varies by configuration
OPERATING SYSTEM	Microsoft® Windows 10 (configurable)
POWER	9-36VDC input
THERMALS	Designed for passive convection cooling via internal heat spreaders mated to external heat sinks to dissipate internally generated heat from system components

CHASSIS SPECIFICATIONS

DIMENSIONS	10.5” x 7.8” x 7.2” (266.7mm x 198.12mm x 182.88mm)
WEIGHT	15 lbs (approximate weight. Varies by Configuration)
MATERIAL	Constructed from formed and machined 5052-H32 and 6061-T6 aluminum alloys
FINISH	Powder Coated Black per MIL-PRF-24712, Type IV, Class 3, Cardinal polyester opaque flat finish, fine texture to prevent corrosion of the chassis

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TECH SPECS

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	70°C Operational, 85°C Storage MIL-STD-810, Method 501.6
LOW TEMPERATURE	-40°C Operational, -40°C Storage MIL-STD-810, Method 502.6
HUMIDITY	5-95%, Non-condensing MIL-STD-810, Method 507.6
TRANSPORT VIBRATION	US Highway Truck and Air Transport MIL-STD-810, Method 514.7
BENCH HANDLING SHOCK	Procedure VI, 20G @ 11ms MIL-STD-810, Method 516.7
EMI COMPLIANCE	MIL-STD-461G

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 minimum 24-hour 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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