CPZ-156T

RUGGED ZERO CLIENT

The CPZ-156T is a high performance VMware optimized Zero Client utilizing the PCoIP Protocol for the ultimate in Security with no operating system or user accessible Nonvolatile Memory. As a true zero client, this device requires zero configuration and management, and offers zero attack surfaces for viruses and malware. This provides the optimal user end-point for Virtual Desktop environments based on VMware Horizon with View. Designed to be a state-of-the-art secure information device, the CPZ-156T is designed from the beginning for security, first and foremost. Utilizing the industry standard PCoIP Protocol (Teradici Chipset), CP Technologies' Zero Clients are designed to be compliant with currently available Desktop Zero Clients but in a rugged form factor for deployment abroad. To further ensure security, the CP Technologies' CPZ-156T is powered through the IEEE- 802.3at Power over Ethernet connection. This means a single push-pull connector is all that is required to lose all display information on the Ruggedized Client. As in all true Zero Client Architectures, no information is ever contained on the Client, it is just an encrypted rendering of the actual Virtualized Desktop (VDI) on the server.

APPLICATIONS

- Deployable Networks
- Energy
- C4ISR
- Communications
- Imaging
- Persistent Surveillance
- Public Safety
- Automation
- Transportation

FEATURES

- Robust Network Protection
- Comprehensive Patch/Version Management
- Rugged Design
- Power over Ethernet
- Revision-Controlled Components
- Optional Carrying Case

Who We Are

CP Technologies, a business unit of CP North America, 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 for over twenty years.

Assembled in the USA
ISO 9001:2015 Certified
ITAR Registered

CP Technologies
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TECH SPECS

DISPLAY SPECIFICATIONS

CONSTRUCTION High Quality 15.6" LED Backlit TFT LCD w/Antiglare Hard Coating
Borosilicate Strengthened Cover Glass

ACTIVE AREA	13.5" x 7.6" (344mm x 194mm)
COLORS	18 bit (256K)
RESPONSE TIME	(Tr/Tf) 6ms/3ms
VIEWING ANGLE	80/80/70/70deg (L/R/T/B)
CONTRAST RATIO	700:1 typical
BRIGHTNESS	450cd/m2 typical
PIXEL PITCH	0.179mm x 0.179mm
RESOLUTION	1920 x 1080
VERTICAL FREQUENCY	60Hz

TOUCH PANEL SPECIFICATIONS

TYPE	Projected Capacitive
NUMBER OF TOUCH POINTS	10
INTERFACE	USB 2.0 @12Mbps
OPERATING FORCE	0G
RESOLUTION	2048 x 2048 (typical)
RESPONSE TIME	<30 ms
ACCURACY	< +/- 1%

ZERO CLIENT SPECIFICATIONS

PROCESSOR	Teradici TERA2321 PCoIP
MEMORY	32MB Flash (Firmware)
	512MB DDR3
CERTIFICATIONS	VMware Ready
	PCoIP Connected
USB	(2) USB 2.0 for HID
NETWORKING	Networking: 10/100/1000 Base-T
	IEEE 802.3at Compliant
ETHERNET	12 Pin Push/Pull
PERIPHERALS	8 Pin Push/Pull

POWER SPECIFICATIONS

NORMAL	20W
POE POWER INPUT	IEEE 802.3at Compliant
AUX POWER INPUT	12 VD +/- 5%

STANDARDIZED & CENTRALIZED MANAGEMENT

MISSION EFFECTIVENESS
Computing Capability
Application/Data Availability
Network and Data Resilience and Reliability
Remote Access
Interoperability
Resource Allocation
User Device Flexibility

SECURITY
Robust Network Protection
Fewer End User Vulnerabilities
Minimal Attack Surface Area
Comprehensive Patch/Version Management
Rapid/Frequent State Restoral
Data-at-Rest Security
Identity and Access Management

IT ASSET VISIBILITY
Improved Projecion and Planning
Accurate Budgeting and Programming
Clinger-Cohen Act
IT Architecture Control
Cost Control
Mission Application/Data Consolidation
Standardized and Centralized Management

COST EFFECTIVENESS
Efficient Operations and Maintenance (O&M)
through Reduced Touch Labor
Reduced Tech Refresh
Enterprise Application/License Identification and
Rationalization
Elimination of Outdated Software

TECH SPECS

CHASSIS SPECIFICATIONS

DIMENSIONS	15" (wide) x 9.5" (high) x 1.5" (deep)
SHIPPING WEIGHT	6.0lbs (2.7 kg) / 15lbs (6.8 kg) in Protective Case
ENCLOSURE FEATURES	Rugged Aircraft-Grade 0.062" 6061 Aluminum Construction Integrated Multi-Touch Panel Interface Fully Configurable Peripheral Ports for Human Interface Devices (HID) or Secondary Authentication Integrated Stand for Easy Viewing

HARSH ENVIRONMENTS

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

ALTITUDE	MIL-STD-810, Method 500.6
HIGH TEMPERATURE	60°C Operational, 60°C Storage MIL-STD-810, Method 501.6
LOW TEMPERATURE	-10°C Operational, -20°C Storage MIL-STD-810, Method 502.6
HUMIDITY	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

QUESTIONS?
Reach out to us at combatproven.tech 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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