



# 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 North America' 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 North America' 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 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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# TECH SPECS

## DISPLAY SPECIFICATIONS

<b>CONSTRUCTION</b>	High Quality 15.6" LED Backlit TFT LCD w/Antiglare Hard Coating Borosilicate Strengthened Cover Glass
<b>ACTIVE AREA</b>	13.5" x 7.6" (344mm x 194mm)
<b>COLORS</b>	18 bit (256K)
<b>RESPONSE TIME</b>	(Tr/Tf) 6ms/3ms
<b>VIEWING ANGLE</b>	80/80/70/70deg (L/R/T/B)
<b>CONTRAST RATIO</b>	700:1 typical
<b>BRIGHTNESS</b>	450cd/m2 typical
<b>PIXEL PITCH</b>	0.179mm x 0.179mm
<b>RESOLUTION</b>	1920 x 1080
<b>VERTICAL FREQUENCY</b>	60Hz
<b>TOUCHSCREEN</b>	Projected Capacitive
<b>NUMBER OF TOUCH POINTS</b>	10
<b>INTERFACE</b>	USB 2.0 @12Mbps
<b>OPERATING FORCE</b>	0G
<b>RESOLUTION</b>	2048 x 2048 (typical)
<b>RESPONSE TIME</b>	<30 ms
<b>ACCURACY</b>	< +/- 1%

## ZERO CLIENT SPECIFICATIONS

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

## CHASSIS SPECIFICATIONS

<b>DIMENSIONS</b>	15" (wide) x 9.5" (high) x 1.5" (deep)
<b>NORMAL</b>	20W
<b>POE POWER INPUT</b>	IEEE 802.3at Compliant
<b>AUX POWER INPUT</b>	12 VD +/- 5%
<b>SHIPPING WEIGHT</b>	6.0lbs (2.7 kg) / 15lbs (6.8 kg) in Protective Case
<b>ENCLOSURE FEATURES</b>	Rugged Aircraft-Grade 0.062" 6061 Aluminum Construction Fully Configurable Peripheral Ports for Human Interface Devices (HID) or Secondary Authentication Integrated Stand for Easy Viewing

## 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 Projection 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

## HARSH ENVIRONMENTS

CP North America designs, builds, and tests our ruggedized offerings to meet MIL-STD-810, 461, and 901. This includes environmental factors such as:

- **HIGH ALTITUDE**
- **EXTREME HIGH & LOW TEMPERATURES**
- **EMI**
- **HUMIDITY**
- **BLOWING SAND AND DUST**
- **VIBRATION**
- **SHOCK**

## 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

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