

TECHNOLOGY LEAD TRANSFORMATION



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Centerm

TECHNOLOGY LEAD TRANSFORMATION

Smart Terminal and Solution Supplier



en.centerm.com



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COMPANY PROFILE

Global Top 3 / Asia Pacific (except Japan) Top 1 Enterprise Client Vendor

Since 2002, Centerm is a global leading provider of smart terminal products and solutions, including thin client, mini PC and smart biometric terminal. Based on over 21-year powerful innovation abilities, Centerm forms on the unique advantage in the areas of cloud computing, VDI, artificial intelligence, biometric identification, fintech and related industrial applications, providing a total solution including hardware, software and service.

Subsidiary of Star-net Group

Centerm is part of Star-net group, a \$ 1.6-billion international group (stock code 002396, listed on the Shenzhen Stock Exchange in 2010) which is a leading ICT solution provider in China.

Over 1000
Employees worldwide

600+
World-class R&D team

200+
Patents

83,000+ m²
Manufacture base

300+
Customer service centers

200+
Countries exported

INTELLIGENT FACTORY

20-year experience in manufacturing

- 83,300 m² factory area with 23 SMT lines, which includes the latest Panasonic SMT chip mounters.
- Annual production: 10million units per year
- Certified to international accreditation like ISO standards, FCC, DNV, UL, CB, CC, VCCI, RoHS.

10 years focusing on intelligent manufacturing

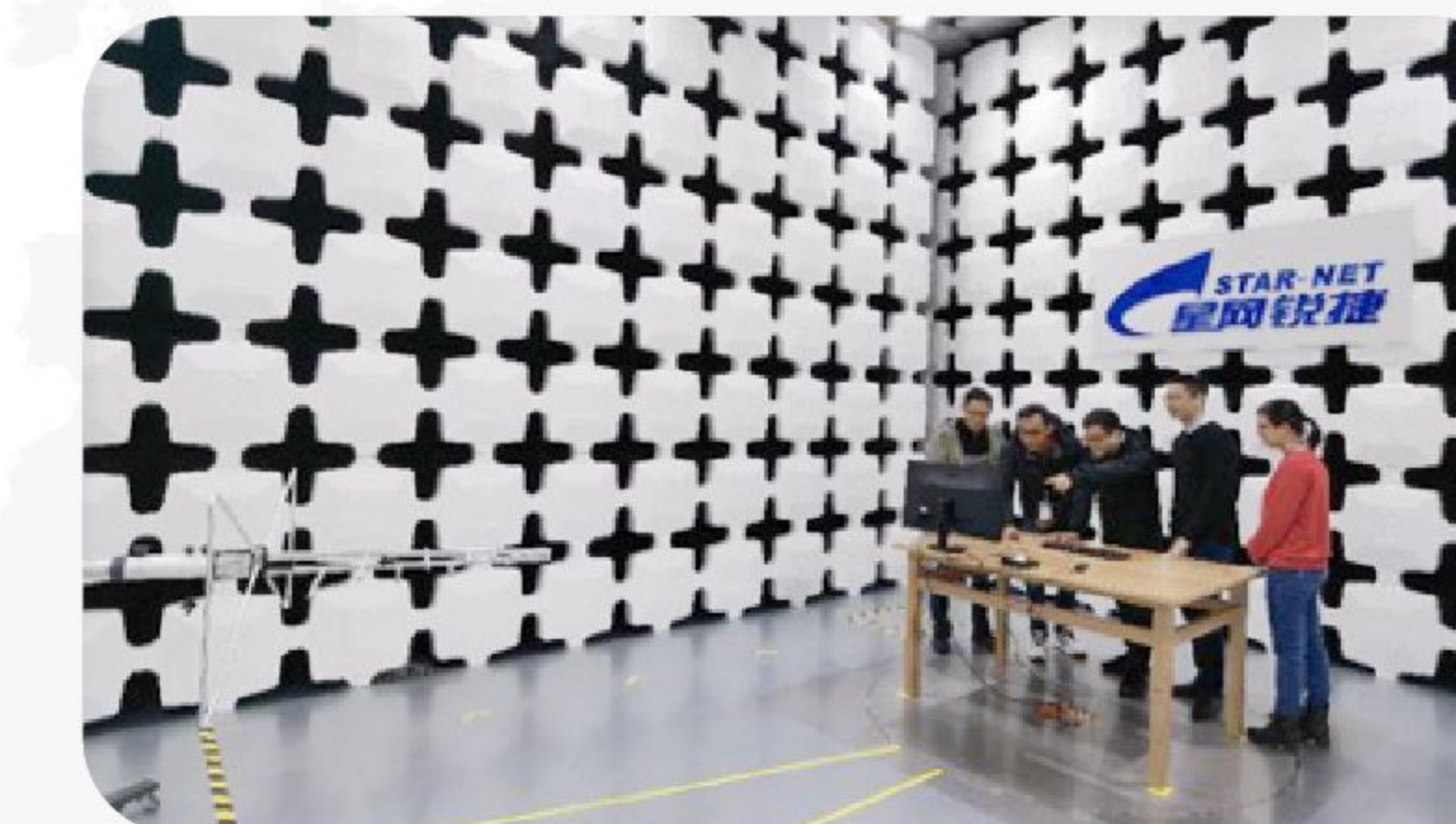
- China's Intelligent Manufacturing Pilot Demonstration Factory
- China Manufacturing Champion Enterprise
- Excellent Solution Award for Enterprise Digital Transformation
- The Most Valuable Intelligent Manufacturing Solution Award



Climate & Environment Lab



Safety Testing Lab



EMC Lab

Laboratory



Material Testing Lab



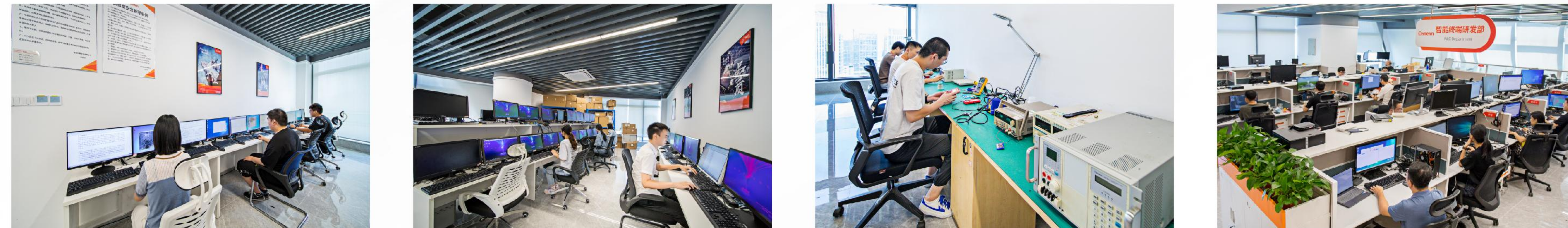
Mechanical Testing Lab



Mechanical Testing Lab

R&D STRENGTH

Over the past 21 years, Centerm has always insisted on independent R&D and innovation, established six R&D centers in China. We also have established a global R&D team of more than 600 professional engineers, and 10% of annual sales volume is invested on the R&D.



OUR PATENT CASE



200+ patents of core technology

OUR HONOR



Microsoft Gold Partner for 16 consecutive years
Microsoft IoT Most Valuable Device Partner of the Year 2023



Intel Best Strategic Partner
Premier Member of Intel IoT Solution Alliance



Global Top 3 enterprise client provider
Asia-Pacific (except Japan) Top 1 enterprise client provider
China Top 1 enterprise client provider
China Top 1 desktop cloud VDI endpoint provider

TECH ALLIANCES



CUSTOMERS

Bank



Insurance



Third-party payment platform





C75



BC01



AFB19



F320



F610



F620



F640

F SERIES THIN CLIENT



TS660

TRUSTED COMPUTING CLIENT



D610

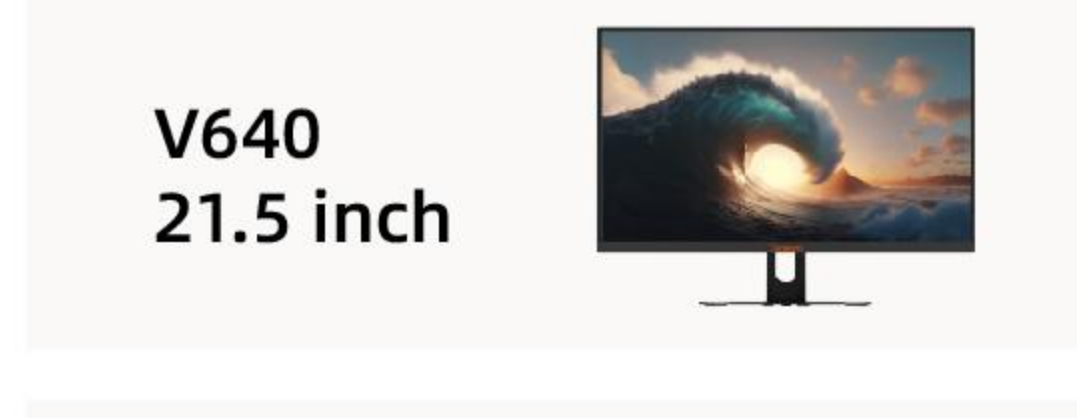


D620

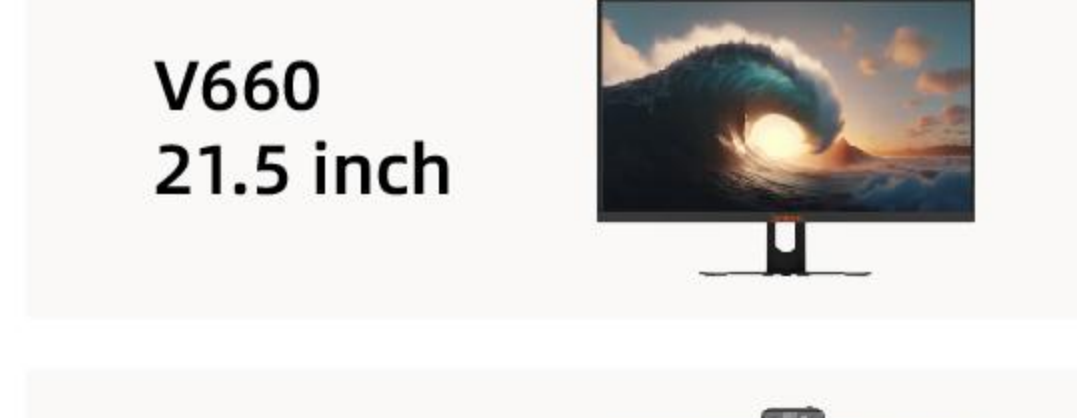


D640

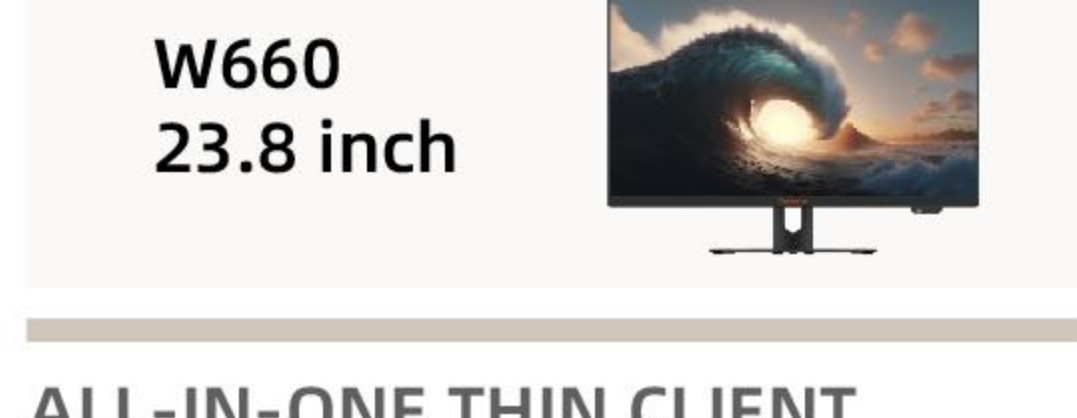
D SERIES THIN CLIENT



V640
21.5 inch



V660
21.5 inch



W660
23.8 inch

ALL-IN-ONE THIN CLIENT



E-signature
pad A10



Mobile
tablet T101



Self-service
kiosk E10

SMART BIOMETRIC TERMINALS

ZERO CLIENT

no operating system (OS) & no local storage



C75

Windows MultiPoint Server 2012 Useful

- No CPU, no disk, no fan, no RAM, no application OS
- Zero maintenance, fast set up and quick deployment
- Work with MultiPoint Server & Useful™

ANDROID MINI PC

Android based OS



BC01

Quad core 1.8GHz

- 2GB DDR4, 8GB Flash, Android OS
- HDMI x 1, USB x 3
- Support WIFI & Bluetooth
- Fanless and lightweight

ENTERPRISE-LEVEL MINI PC

Full capacity in pocket size



AFB19

Intel i5 dodeca core

- 8GB/64GB DDR4(std/max), 256GB/512GB m.2 SSD (std/max), optional HDD max at 1T
- Windows / Linux OS
- USB x 4, Type-C x 1, Gigabit Ethernet port x 2, HDMI x 1, DP x 1, 4K resolution
- Wireless capable & Bluetooth support

F SERIES THIN CLIENT

Lining-up from essentials to professional usage



F320 ARM

Quad core 2.0GHz

- 2GB/4GB DDR4(std/max), 8GB/16GB Flash(std/max), Linux OS
- VGA x 1+ HDMI x 1, USB x 6
- Wireless capable & VESA mountable



F610

Intel quad core 2.0GHz

- 2GB/8GB DDR3L(std/max), 8GB/512GB mSATA(std/max), Win 10 IOT/ Linux OS
- DVI-I x 1 + DP x 1, USB x 6
- Wireless capable & VESA mountable



F620

Intel quad core 2.0GHz

- 4GB/8GB DDR4(std/max), 64GB/512GB mSATA(std/max), Win 10 IOT/ Linux OS
- HDMI x 1 + DP x 1, USB x 6
- M.2 storage support & optional TPM
- Wireless capable & VESA mountable



F640

Intel quad core 2.0GHz

- 4GB/16GB DDR4(std/max), 64GB/512GB mSATA(std/max), Win 10 IOT/ Linux OS
- Type-C x 1 + DP x 2, USB x 5, 3 screen support, 4K resolution
- M.2 storage support & optional TPM
- Wireless capable & VESA mountable

D SERIES THIN CLIENT

Rich peripherals support for more applications



D610

Intel quad core 2.0GHz

- 2GB/8GB DDR3L(std/max), 8GB/512GB mSATA(std/max), Win 10 IOT/ Linux OS
- DVI-I x 1, DP x 1 (optional), USB x 6, parallel x 1, serial x 4
- 2 Gigabit Ethernet ports support (1 is optional) & Wireless capable
- Optional IC card reader



D620

Intel quad core 2.0GHz

- 4GB/16GB DDR4(std/max), 64GB/512GB mSATA(std/max), Win 10 IOT/ Linux OS
- DP x 2, USB x 8, parallel x 1, serial x 4, 4K resolution
- 2 Gigabit Ethernet ports support (1 is optional) & Wireless capable
- M.2 support & optional TPM



D640

Intel quad core 2.0GHz

- 4GB/16GB DDR4(std/max), 64GB/512GB mSATA(std/max), Win 10 IOT/ Linux OS
- DP x 2, USB x 8, Type-C x 1, parallel x 1, serial x 4, 3 screen support, 4K resolution
- 2 Gigabit Ethernet ports support (1 is optional) & Wireless capable, FPS support
- M.2 storage support & optional speaker & optional TPM

TRUSTED COMPUTING CLIENT

Designed for high security requirement



TS660

Intel i3 quad core 3.3GHz

- 8GB/64GB DDR4(std/max), 256GB/512GB mSATA(std/max), Win 10 IOT
- VGA x 1, HDMI x 1DVI-I x 1, USB x 8, parallel x 1, serial x 4
- 2 Gigabit Ethernet ports support (1 is optional) & Wireless capable
- M.2 storage support & optional TPM

ALL-IN-ONE

Elegant design and maximum versatility



V640

21.5 inch AIO

- Intel quad core 2.0GHz, Win 10 IOT
- 4GB/16GB DDR4(std/max), 64GB/512GB mSATA(std/max), optional HDD max at 1T
- Resolution: 1920 x 1080@60Hz
- USB x 7, parallel x 1, serial x 4, DP x 1
- 2 Gigabit Ethernet ports support (1 is optional) & Wireless capable



V660

21.5 inch AIO

- Intel i3 quad core 3.6GHz / Intel i5 hexa core 3.1GHz, Win 10 IOT
- 8GB/64GB DDR4(std/max), 128GB/512GB mSATA(std/max), optional HDD max at 1T
- Resolution: 1920 x 1080@60Hz



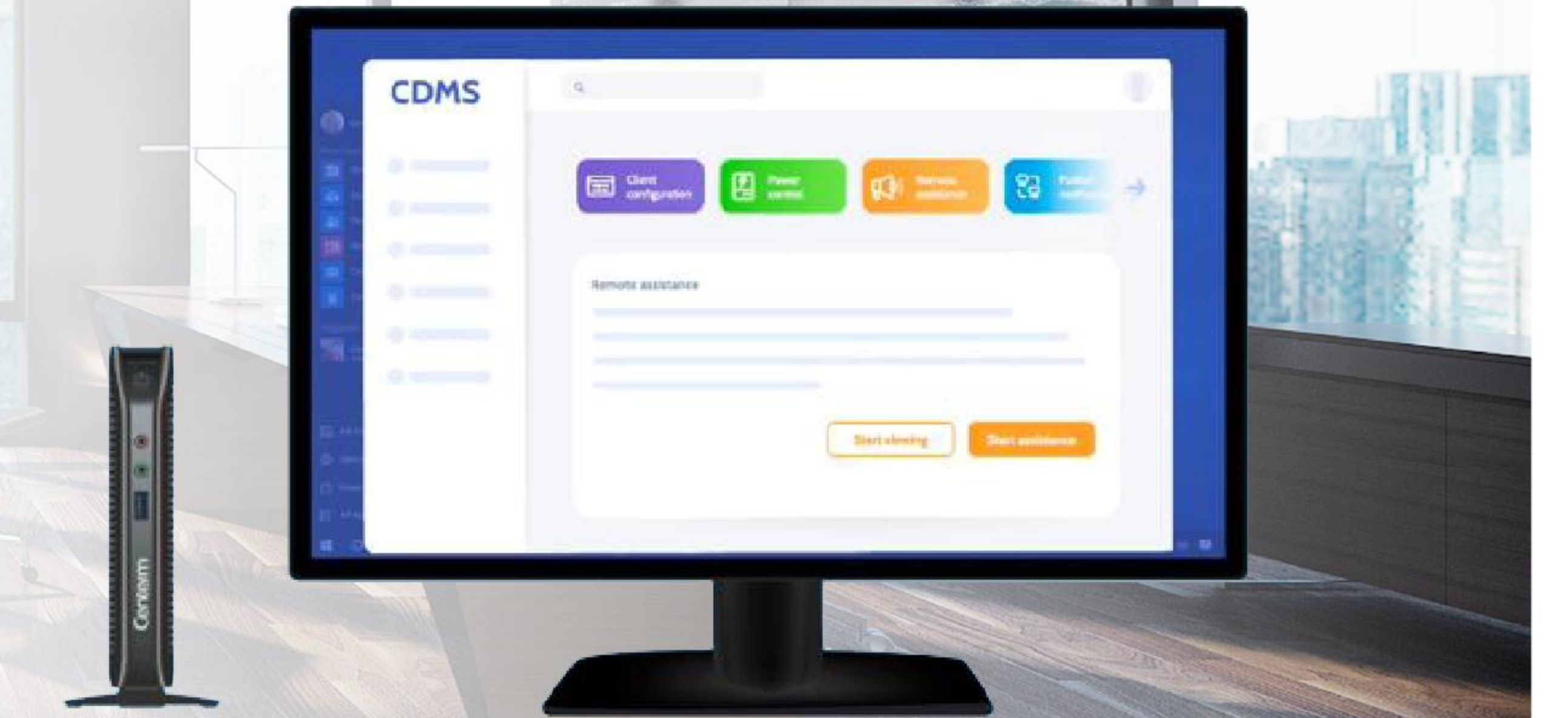
W660

23.8 inch AIO

- Intel i3 quad core 3.3GHz / Intel i5 hexa core 3.0GHz / Intel i7 decode core 2.1GHz
- 8GB/64GB DDR4(std/max), 128GB/512GB mSATA(std/max), optional HDD max at 1T
- Resolution: 1920 x 1080@60Hz

Centerm Desktop Management System

CDMS is a centralized management tool for servers and client devices. It is tailored for efficient IT management, including both hardware and software inventory management, and the remote dispatch of both software and firmware updates. It also allows for simple remote device configurations and health checks, plus rapid deployment of latest security policies and patches. In short, CDMS is a one-stop portal for IT management, and has been embraced by industries and businesses globally to minimize administration and maximize uptime.



- Automatic discovery of devices
- Automatic Configuration & Firmware Versioning
- Organization in groups and automatic assignment of new devices

- Easily performing updates on remote endpoints
- Providing monitoring & remote troubleshooting
- Power Management & schedule task



SMB



Education



Banking



Government

SMART TERMINAL

E-SIGNATURE DEVICE



A10

- 10.1 inch electromagnetic screen
- Android operation system
- Contact & contactless IC card reader, magnetic card reader, e-signature, Pin pad, fingerprint reader and camera

MOBILE TABLET



T101

- 10.1 inch IPS screen
- Android OS, Octa core CPU
- Bluetooth, 4G, Wi-Fi, GPS
- Contacted & contact-less IC card reader, magnetic card reader, fingerprint reader, e-signature and camera.

SELF-SERVICE KIOSK



E10

- Intel J1900 quad core, Windows OS, DDR3 4G
- 17-inch capacitive touch screen
- Contact & contactless IC card reader, magnetic card reader, Pin pad, passbook printer and thermal printer for receipt

CENTERM SOLUTION ACROSS INDUSTRIES

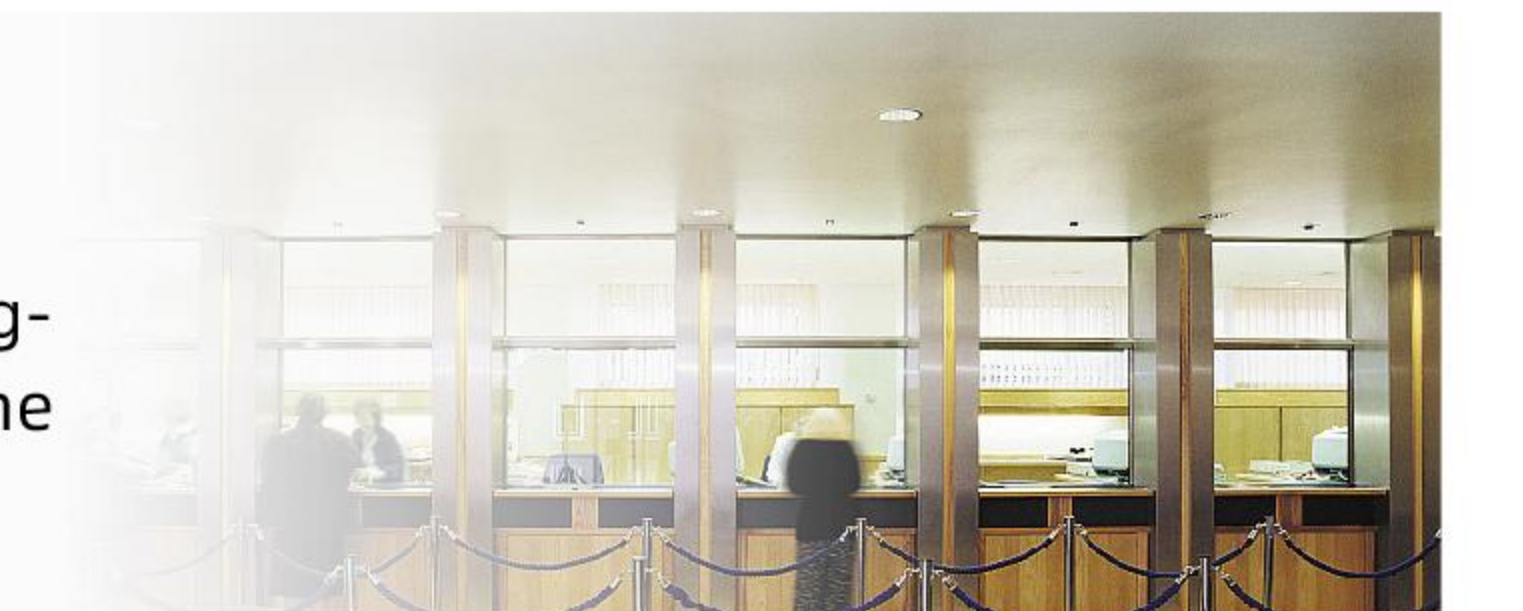


Corporate

IT looks towards thin client solutions to lower costs, centralize management, create a secure infrastructure, and decrease energy and space concerns with a reduction in power and cooling needs. Users get the same experience as a PC and IT administrators can easily manage and troubleshoot desktop users through Centerm solution.

Banking

The technical needs of financial services are demanding - they need to fit the business and comply with policies. Data accuracy, integrity and access speed are integral and systems failures or delays could be damaging. Centerm security solutions help to make the financial infrastructure more reliable and manageable to keep your company's data at minimal risk.

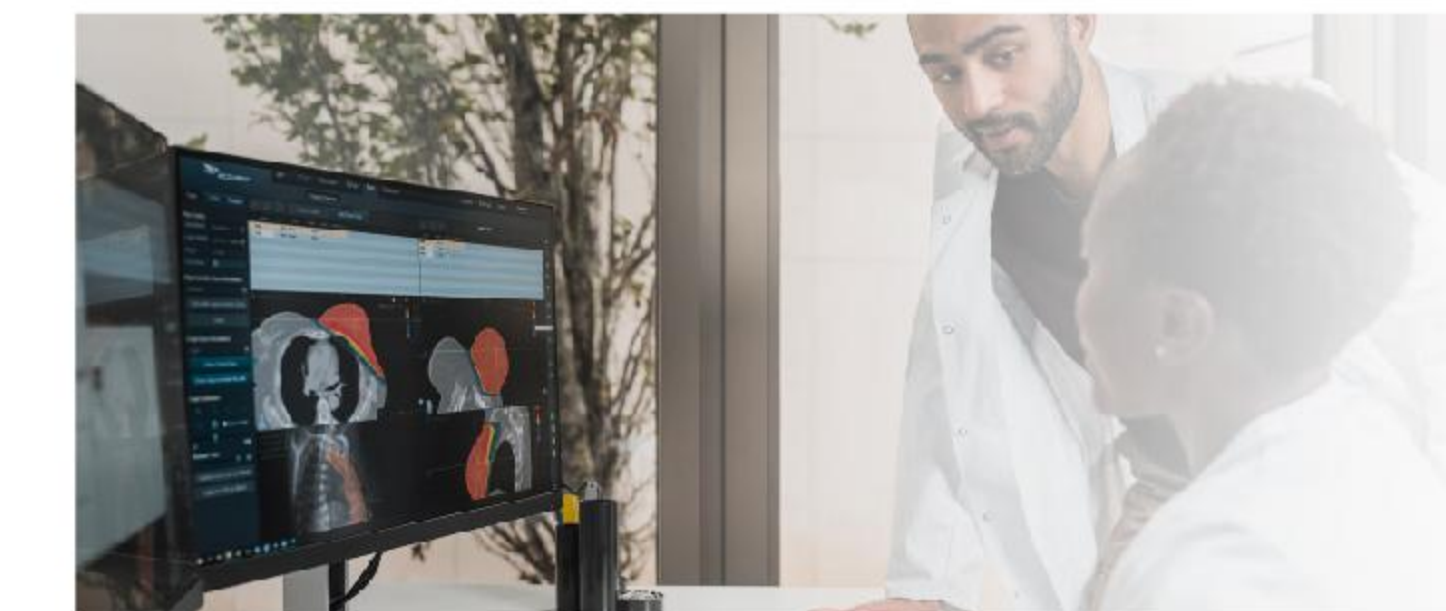
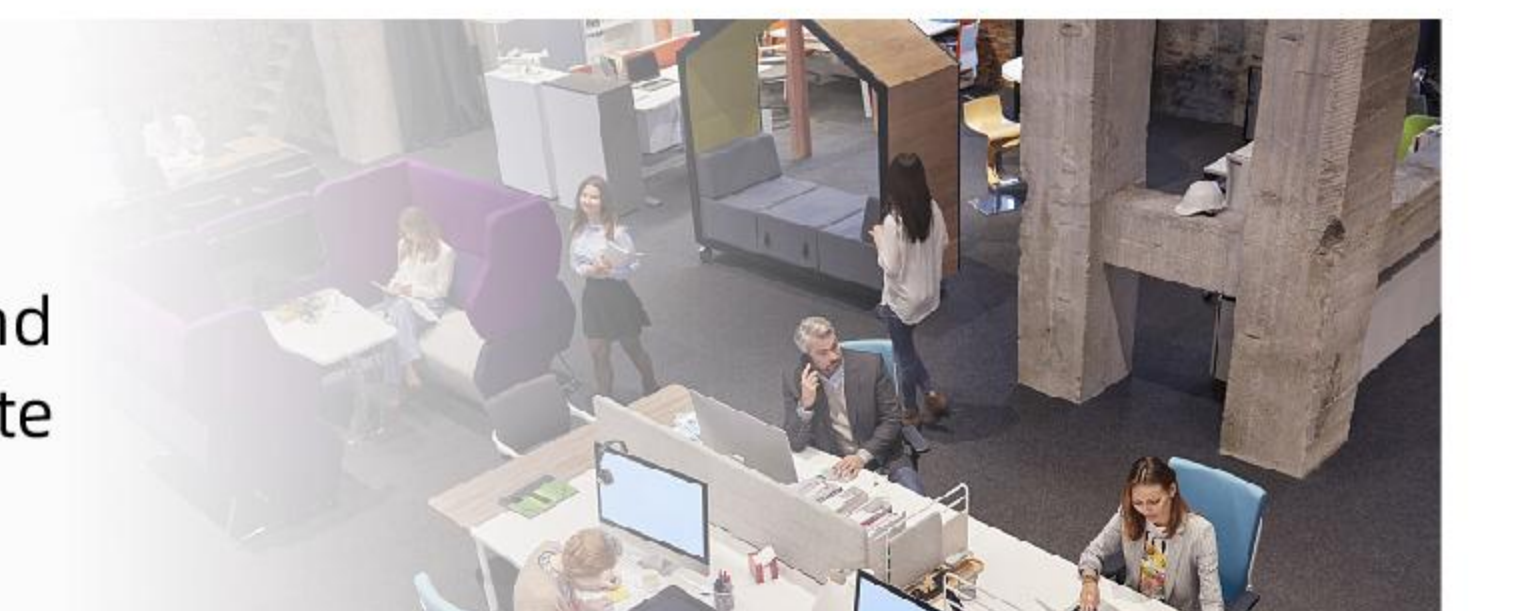


Education

In today's ever changing technological reliant world, IT administrators are looking to provide students with technology at their finger tips to create a dynamic learning environment. Centerm solution allows IT administrators to search for effective and cost conscience technology solutions with tight budget

Government

Government facilities are turning to Centerm thin client solutions because they need to access mission-critical applications and information to respond effectively to everything from emergencies and disasters to basic services. Thin clients allow for secure remote access government personnel need to perform.



Healthcare

Healthcare is an ever growing and advancing field. Institutes all over the world have been expanding into the thin client market greatly in the past decade, for the benefits they gain from thin client solutions and virtual desktop computing.

Zero Client

C75	
Model	
HARDWARE	
CPU	SoC
Memory	—
TDP	<5w
Dimension	93.5 x 93.5 x 20.4
Weight	0.2kg
SOFTWARE	
Protocols	-
PORTS	
USB 2.0	4
Audio	1 mic-in, 1 line-out
Networking	1 (10/100/1000Mbps, RJ-45)
Display	1 VGA & 1 HDMI
Resolution	2048x1152 (VGA) 1920X1080 (HDMI)

Adroid Mini PC

BC01	
Model	
HARDWARE	
CPU	Quad core 1.8 GHz
Memory	2G DDR4
Storage	8G
Dimension	105 x 10.5 x 49.5
Weight	0.06KG
SOFTWARE	
Protocols	Android
PORTS	
USB 2.0	2
USB 3.0	1
Networking	Internal dual bank WiFi+BT
Display	1 HDMI
Resolution	1920X1200

Enterprise-level Mini PC

AFB19	
Model	
HARDWARE	
CPU	Intel i5 dodeca core, up to 4.4GHz(std)/ Intel i3 deca core, up to 4.4GHz (optional)/ Intel i7 dodeca core, up to 4.7GHz (optional)
Memory	8GB/64GB DDR4(std/max)
Storage	1*m.2 2280 SSD, 256 GB/512GB SSD(std/max) Optional SATA
Dimension	131 x 47 x 131
Weight	0.45kg
SOFTWARE	
Operating System	Windows
Protocols	Citrix Workplace App/Vmware View Client/RDP Client
PORTS	
USB 3.1 Gen1 Type-A	4
USB 3.1 Gen1 Type-C	1
Networking	2 (10/100/1000Mbps, RJ-45)
Display	1 HDMI, 1 DP, 1 Type-C
Resolution	4096 x 2160
Audio Port	1
Wireless	WIFI 6 ax (optional)
Bluetooth	Bluetooth 5.0 (optional)

F series thin client

	F320	F610	F620	F640
Model				
HARDWARE				
CPU	Quad core 2.0GHz	Intel quad core 2.0GHz Intel dual core 2.41GHz	Intel quad core 2.0GHz	Intel quad core 2.0GHz
Memory	2GB/4GB DDR4(std/max)	2GB/8GB DDR3L(std/max)	4GB/8GB DDR4(std/max)	4GB/16GB DDR4(std/max)
Storage	8GB/16GB Flash(std/max)	8GB/512GB mSATA(std/max)	64GB/512GB mSATA	64GB/512GB mSATA
TDP	<8W	<10W	<10W	<10W
Dimension (mm)	131 x 31.5 x 167	131 x 31.5 x 167	131 x 31.5 x 167	131 x 31.5 x 167
Weight	0.44kg	0.55kg	0.51kg	0.532kg
SOFTWARE				
Operating System	Linux	WIN 10 IOT, Linux	WIN 10 IOT, Linux	WIN 10 IOT, Linux
Protocols	Citrix Workspace App/RDP Client/VMware Horizon Client			
PORTS, SLOTS & CHASSIS				
USB 2.0	4	5	4	3
USB 3.0	2	1	2	2
Audio	1 mic-in, 1 line-out	1 mic-in, 1 line-out	1 mic-in, 1 line-out	1 mic-in, 1 line-out
LAN	1 (10/100/1000Mbps,RJ45)	1 (10/100/1000Mbps,RJ45)	1 (10/100/1000Mbps,RJ45)	1 (10/100/1000Mbps,RJ45)
Wireless	Optional	Optional ¹	Optional ¹	Optional
Display	1 VGA + 1 HDMI	1 DVI-I + 1 DP	1 HDMI + 1 DP	2 DP + 1 Type-C
Resolution	1920x1200 (VGA) 3840x2560 (HDMI)	1920x1200 (DVI) 1920x1200 (DP)	3840x2160 (HDMI) 3840x2160 (DP)	4096x2160 (DP) 4096x2160 (Type-C)
OTHERS				
Other options			M.2 storage support ² & optional TPM	M.2 storage support ² & optional TPM

1. Wifi will occupy one USB port, please inquiry our sales representative.
2. Notice that m.2 storage and mSATA storage are alternative
* The product specification herein is subject to change without notice.

D Series Thin Client

	D610	D620	D640	TS660
Model				
HARDWARE				
CPU	Intel quad core 2.0GHz / Intel dual core 2.41GHz	Intel quad core 2.0GHz	Intel quad core 2.0GHz	Intel i3 quad core 3.3GHz (std)/ Intel i5 hexa core 3.0GHz (optional) / Intel i7 dodeca core 2.1GHz (optional)
Memory	2GB/8GB DDR3L(std/max)	4GB/16GB DDR4(std/max)	4GB/16GB DDR4(std/max)	8GB/64GB DDR4(std/max)
Storage	8GB/512GB mSATA(std/max) Optional SATA	64GB/512GB mSATA(std/max) Optional (SATA & m.2)	64GB/512GB mSATA(std/max) Optional (SATA & m.2)	256GB/512GB mSATA(std/max) Optional (SATA & m.2)
TDP	<10W	<10W	<10W	<70W
Dimension (mm)	206 x 48 x 215 (stand excluded)/ 206 × 83 ×223 (stand included)			
Weight	1.2kg	1.2kg	1.18kg	1.37kg
SOFTWARE				
Operating System	WIN 10 IOT, Linux	WIN 10 IOT, Linux	WIN 10 IOT,Linux	WIN 10 IOT
Protocols	Citrix Workspace App/Vmware View Client/RDP Client			
PORTS, SLOTS & CHASSIS				
USB 2.0	5	6	6	4
USB 3.0	1	2	2	4
USB 3.1 Gen1 Type-C	-	-	1	1
PS/2	2	2	2	2
Parallel	1	1	1	1
Serial	1 (extensible to 4 via cable)	1 (extensible to 4 via cable)	1 (extensible to 4 via cable)	1 (extensible to 4 via cable)
Audio	1 Mic-in, 1 line-out	1 Mic-in, 1 line-out	1 Mic-in, 1 line-out	1 Mic-in, 1 line-out
LAN	1(10/100/1000Mbps,RJ45) additional one is optional			
Wireless	Optional	Optional	Optional	Optional
Display	1 DVI-I 1 DP(optional)	2 DP	2 DP 1 Type-C	1 VGA 1 HDMI
Resolution	1920 x 1200	3840 x 2160	4096 x 2160 (DP) 4096 x 2160(Type-C)	1920 x 1200 (VGA) 4096 x 2160(HDMI)
OTHERS				
Other options	Optional IC Card reader support	TPM	Speaker, FPS, TPM	TPM

* The product specification herein is subject to change without notice.

Trusted Client

All-in-one Thin Client

	V640	V660	W660
Model			
HARDWARE			
Screen	21.5 inch	21.5 inch	23.8 inch,
CPU	Intel quad core 2.0GHz (std)	Intel i3 quad core 3.6GHz(std) Intel i5 hexa core 3.1GHz (optional)	Intel i3 quad core 3.3GHz (std) / Intel i5 hexa core 3.0GHz (optional) / Intel i7 dodeca core 2.1GHz (optional)
Memory	4GB/16GB DDR4(std/max)	8GB/64GB DDR4(std/max)	8GB/64GB DDR4(std/max)
Storage	64GB/512GB mSATA(std/max) Optional m.2 for SATA or PCIE Optional HDD (max 1T)	128GB/512GB mSATA(std/max) Optional m.2 for SATA or PCIE Optional HDD (max 1T)	128GB/512GB mSATA(std/max) Optional m.2 for SATA or PCIE Optional HDD (max 1T)
TDP	<29.58W	<65W	<65W
TDP	490 x 361x 162 (including stand) 490 x 292 x 51 (without stand)	490 x 361x 162 (including stand) 490 x 292 x 51 (without stand)	540.4 x 321.6 x 52.3 (including stand) 540.4 x 390.4 x 177.3 (without stand)
Weight	3.85kg	3.8kg	4.6kg
SOFTWARE			
Operating System	WIN 10 IOT	WIN 10 IOT	WIN 10 IOT
Protocols	Citrix Workplace App/Vmware View Client/RDP Client		
PORTS, SLOTS & CHASSIS			
USB 2.0	5	4	4
USB 3.0	2	4	4
Cameras	-	-	Optional
Speaker	Optional	-	Yes
Display	LVDS:1920x1080 (Optional) 1 DP(4096x2160) (Optional) 1 Type-C(4096*2160)	LVDS:1920x1080 Optional 1 DP(4096x2304)	LVDS:1920x1080 1 HDMI(4096x2304)
Parallel	1	1	1
Serial	1 (extensible to 4 via cable)	1 (extensible to 4 via cable)	1 (extensible to 4 via cable)
Audio	3.5mm 2-in-1 Audio port	3.5mm 2-in-1 Audio port	3.5mm 2-in-1 Audio port
LAN	1(10/100/1000Mbps,RJ45) additional one is optional	1(10/100/1000Mbps,RJ45) additional one is optional	1(10/100/1000Mbps,RJ45) additional one is optional
Wireless	Optional	Optional	Optional
OTHERS			
Other options	Optional TPM	Optional TPM	Optional Type-C/ Optional TPM / Optional fingerprint reader

* The product specification herein is subject to change without notice.