

## General Specifications

### Mechanical

Material: Stainless Steel (304) front face / Anodised Aluminium rear face  
 Mounting: Cased (VESA 75 mount) or Bezel  
 Dimensions (mm): 584 (W) x 384 (H) x 100.5 (D) cased  
 Weight (g): 15Kg

### Environmental

Operating Temp.: PC: -5°C to +45°C cased, -5°C to +50°C bezel      Monitor: -10°C to +55°C  
 Storage Temp.: -20°C to +70°C  
 Relative Humidity: 95% non-condensing  
 Seal: IP65 / IP68 / IP69K

### Electrical and Electronic

Supply Voltage: 12VDC, 12-18VDC (BT), 24VDC, 9-33VDC, or 95-265VAC  
 Power Consumption: PC – Typically 50W      Heated PC – Typically 170W\*      Monitor – Typically 30W  
 \* Not available on DC options  
 Display: 21.5" 300cd/m<sup>2</sup> 16:9 (1920 x 1080) TFT-LCD LED backlit  
 Motherboard: See Appendix A

### General

Warranty: 3 year standard return to base  
 Extendable to 5 years if required

### Watchdog

Continually monitors and records internal operating conditions, protecting the hardware. In conditions outside the operating temperature watchdog will prevent start-up. Four rear panel LEDs indicate to the operator the status of fans, internal temperature, motherboard reset and drive activity. See separate datasheet that can be found on our website for more information, located in the Support tab of the product page.

### Front View

IP69 Polycarbonate Protected  
 PCAP Touchscreen



LED Backlit Display

Stainless Steel  
 Enclosure

### Rear View

VESA Mounting  
 Holes

Watchdog



EPG

OSD

## Options and Customisation

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### Touchscreens

PCAP: Projected Capacitive touchscreen behind a 4mm flush filter (see spec below)

Material 2.1mm tempered glass with 0.57mm sensor  
Hardness 5H, Transparency 91% or more  
Connectivity USB or RS232

No Touchscreen: 4mm flush filter Polycarbonate with hard coat and anti-newton ring coatings  
Material UV stabilised clear transparent polycarbonate  
Hardness 8H

### Options

Monitor only VGA or DVI (DP+ or HDMI via adaptor cable)

KVM Extenders See Appendix C

CKS Thin Client Based on our standard S22 product with Windows 7 Embedded.

Axel Thin Client This can be built into the S22 or supplied separately

Wi-Fi Communication is available via an external antenna. Fully compliant with IEEE's security 802.11b or 802.11g (2.4 GHz) standards with WPA/WEP support.

High Bright Display For sunlight readable display

Thermal Control Internal heater PTC F-Plate (2 x 60W) to extend to -30°C and/or external waterproof fan assembly to extend to +50°C

Fail Safe See separate datasheet that can be found on our website for more information, located in the Support tab of the product page.

Mounting Mounting kits include pedestal and wall mount brackets

### Customisation

Colour Full customisation of case colour and logos available.

OS / Software Contact us for further details.

Output Sockets These can be customised to suit your requirements.

## Appendix A

Motherboard	A2	BT	I7
Form Factor	Mini-ITX	Mini-ITX	Mini-ITX
CPU	Intel® Atom™ D2550 1.86Ghz	Intel® Baytrail-M/D™ J1900 2.00Ghz Supports Hyper-Threading	Intel® Core™ i7-3610QM 2.30Ghz Supports Hyper-Threading
Core Number	2	4	4
Chipset	Intel® NM10	-	Intel® QM77
BIOS	Award BIOS	UEFI	Phoenix UEFI Flash BIOS
Graphics	Intel®GMA 3650	Intel® Gen7 Intel Graphics DX11™ , OGL3.2	Intel® GMA HD4000 DX11™ GFX core (DVMT 5.0)
LVDS	Dual Channel up to 1920 x 1080	Dual Channel up to 1920 x 1080	Dual Channel up to 1920 x 1080
Display	CRT + LVDS	CRT + LVDS	CRT + LVDS
HDMI	-	Supports HDMI 1.3a, max resolution 1920 x 1080	-
RAM	Up to 4GB (DDR3-1066)	Up to 16GB (DDR3-1333)	Up to 16GB (DDR3-1600)
SATA	2 x SATA2 with AHCI support (300Mhz)	2 x SATA3 (6.0Gb/s)	4 x SATA3 (6.0Gb/s)
Mini-PCIe	1 x Full-Sized	1 x Half-Sized	1 x Full-Sized
m-SATA	-	1	-
PCI / PCIe	N/A	N/A	N/A
Serial Ports	3 x RS232, 1 x RS422/485	3 x RS232/RS422/485, 1 x RS232	3 x RS232, 1 x RS422/485 // 1 x RS232
USB Ports	4 x USB2 // 4 x USB2	2 x USB2, 2 x USB3 // 4 x USB2, 2 x USB3	4 x USB2, 4 x USB3 // 8 x USB2, 4 x USB3
Keyboard	1 x PS2	1 x PS2	1 (shared)
Mouse	1 x PS2	1 x PS2	1 (shared)
Ethernet	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
Parallel Port	1 x LPT1	1 x LPT1	1 x LPT1
Audio	HD Audio with 1.2W Amplifier	HD Audio with 3W Amplifier	HD Audio with 1.2W Amplifier
Power	35W	40W	60W
Storage Media	2GB – 128GB SSD (SLC/MLC) or 500GB HDD	16GB – 128GB SSD (SLC/MLC) or 500GB HDD	16GB – 128GB SSD (SLC/MLC) or 500GB HDD
Operating System	XPe, XP Pro FES, W7e 32-bit, W7 FES 32-bit, DOS	W7e 32/64-bit, W7 FES 32/64-bit, W10 IoT Enterprise LTSB 32/64-bit, DOS	W7e 64-bit, W7 FES 64-bit, W10 IoT Enterprise LTSB 64-bit, DOS

## Appendix B

Axel Thin Client	
Description	S17 monitor with Axel M85 built in
Keyboard	1 x PS2
Mouse	1 x PS2
USB	4
Ethernet	1 x TCP/IP 10/100BaseT LAN
Serial	2 x RS232
Parallel Port	1 x LPT1
Graphical Sessions	Microsoft TSE (from NT4 to 2008R2) / RemoteApp / Multipoint 2011, Citrix XenApp & Metaframe / XenDesktop, VMware View, Linux (VNC Client)
Text Sessions	AS/400 iSeries: 5250, S/390 zSeries: 3270, Unix/Linux: Telnet, SSH & TTY (ANSI, SCO OPENSERVER, UNIX SCO 3.2.2, UNIX SCO 3.2.4, XENIX SCO, ANSI INTERACTIVE, UNIX SVR4, ANSI , RS6000, ANSI DATA GENERAL, UNIXWAR E 7, LINUX, VT100/VT220, VT52, WYSE 50/60/120, DS VP-A2, ADDS VP-60, IBM 3151, ATO300, PRISM, REAL/32, THEOS, OS2 POLYMOD2, SM9400, SM9412, TWINSERVER, PROLOGUE 3, TVI 950, QVT119+, C332
Administration	Remote interactive set-up / Text sessions remote control / VNC remote control / Downloadable firmware / AXRM compliant

## Appendix C

### KVM CE770

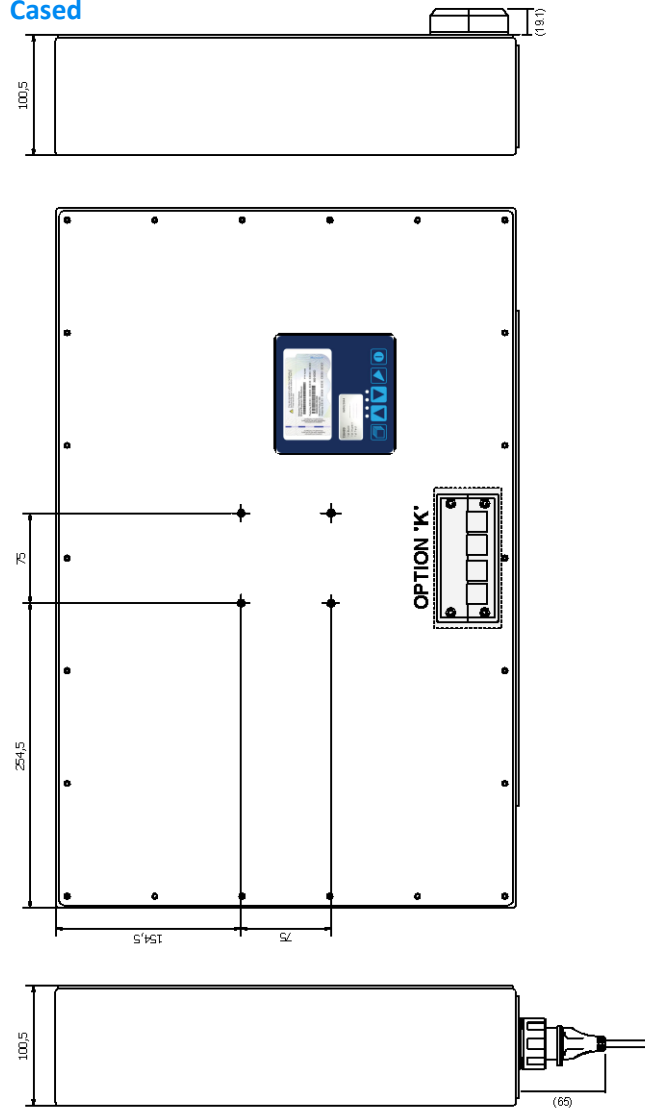
Function			CE770L (Local)	CE770R (Remote)	
<b>Connectors</b>	Console Ports	Keyboard	1 x USB Type A Female (White)		
		Video	1 x HDB-15 Female (Blue)		
		Mouse	1 x USB Type A Female (White)		
		Speakers	1 x Mini Stereo Jack Female (Green)		
		Mic.	1 x Mini Stereo Jack Female (Pink)		
		RS-232	1 x DB-9 Female (Black)	1 x DB-9 Male (Black)	
	KVM Ports	Keyboard/ Video / Mouse	1 x SPHD-17 Female (Yellow)	N/A	
		Speakers	1 x Mini Stereo Jack (Green)		
		Mic.	1 x Mini Stereo Jack (Pink)		
	Power		1 x DC Jack (Black)		
Unit to Unit		1 x RJ-45 Female (Black)			
<b>LEDs</b>	Local		1 (Green)	N/A	
	Remote		1 (Green)	N/A	
	B		N/A	1 (Blue)	
	G	Link	N/A	1 (Orange/Green)	
	R	Remote	N/A	1 (Red)	
<b>Pushbuttons</b>	Operating Mode Selection		1 x Pushbutton	N/A	
	Color / Up		N/A	1 x Pushbutton	
	Select / Down		N/A	1 x Pushbutton	
<b>Emulation</b>	Keyboard / Mouse		USB		
<b>Video</b>	1920 x 1200 @ 60Hz (150 m); 1280 x 1024 @ 60Hz(300m); DDC, DDC2, DDC2B				
<b>Power Consumption</b>			DC5.3V/3.5W	DC5.3V/5.1W	
<b>Environment</b>	Operating Temp.		0 - 50°C		
	Storage Temp.		-20 - 60°C		
	Humidity		0-80% RH, Non-condensing		
<b>Physical Properties</b>	Housing		Metal		
	Weight		0.49 kg	0.48 kg	
	Dimensions (L x W x H)		20.20x8.64x2.50cm	20.20x8.64x2.50cm	

### KVM CE610

Function			CE610L (Local)	CE610R (Remote)
<b>Connectors</b>	DVI In		1 x DVI-D Female (White)	N/A
	DVI Out		N/A	1 x DVI-D Female (White)
	USB		1 x USB Type B Female (White)	3 x USB Type A Female (White)
	Power		1 x DC Jack	
	F/W Upgrade		1 x RJ-11 Female (Black)	
	Unit to Unit		1 x RJ-45 Female (Black)	
	<b>LEDs</b>	Power		1 (Green)
Link			1 (Green)	
USB			1 (Green)	
Video			1 (Green)	
<b>Emulation</b>	Keyboard / Mouse		USB	
<b>Video</b>	1920 x 1200 @ 60Hz (100 m)			
<b>Power Consumption</b>	DC 5V, 15 W			
<b>Environment</b>	Operating Temp.		0-50°C	
	Storage Temp.		-20-60°C	
	Humidity		0-80% RH, Non-condensing	
<b>Physical Properties</b>	Housing		Metal	
	Weight		0.61 kg	0.62 kg
	Dimensions (L x W x H)		18.20x11.79x2.87cm	18.20x11.79x2.87cm

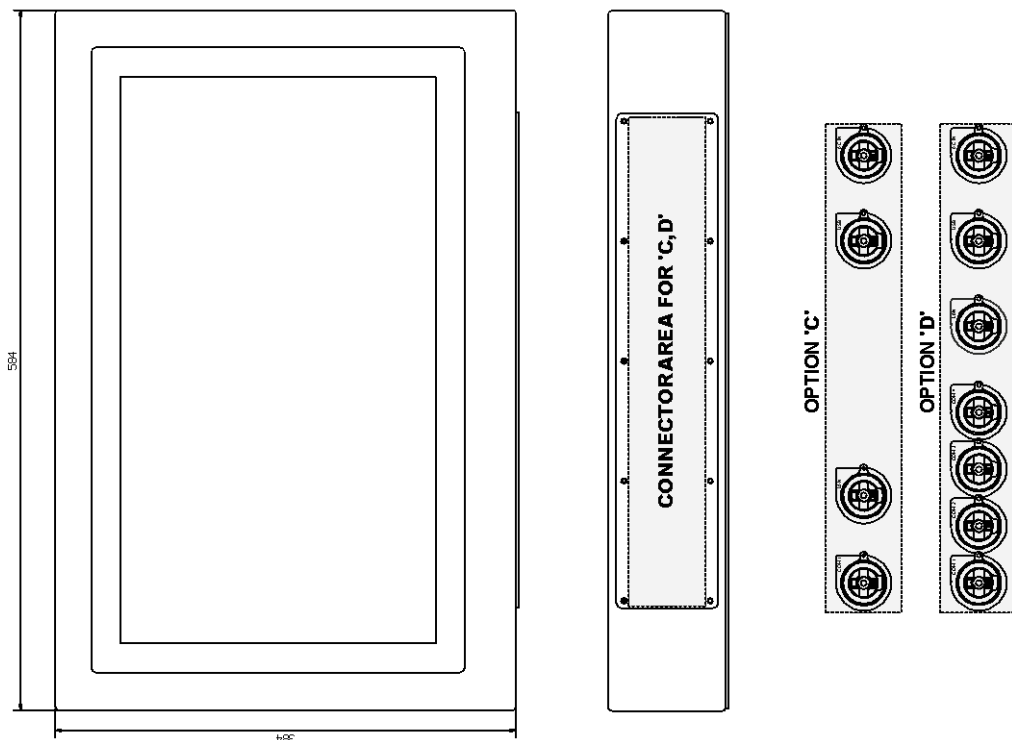
# Dimensions

## Cased



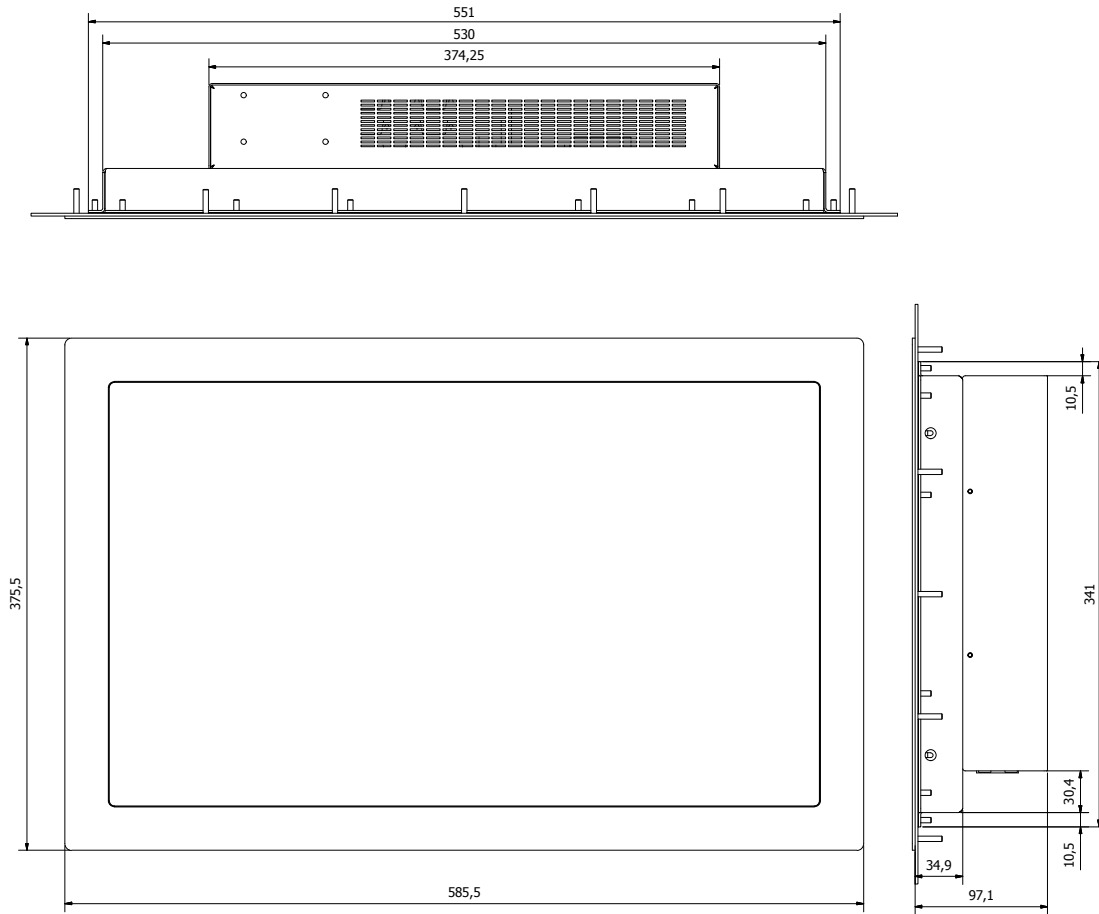
## Option 'K'

Mechanical	Rear/Bottom Seal	Description
C	IP68	Cased Client PC, Bottom outlet 4 connections
D	IP68	Cased Client PC, Bottom outlet 7 connections
K	IP65	Cased Client PC, Rear outlet EPG
L	IP65	Cased Monitor/Thin Client, Rear outlet EPG
Z	IP22	1.5mm Bezel, Bottom outlet connections



# Dimensions

## Bezel Mount



## Bezel mount fixing detail

