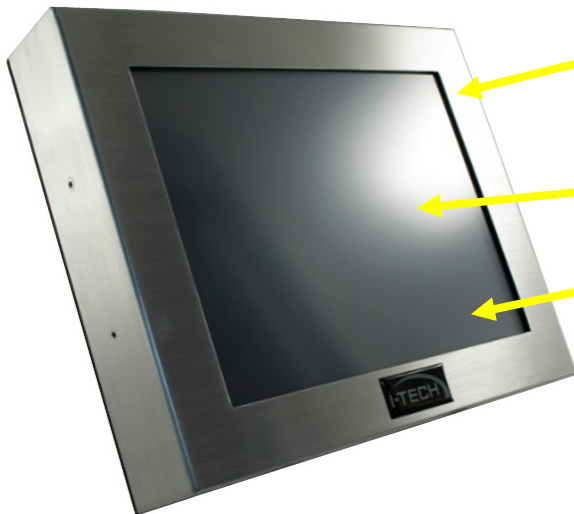Wide 21.5" LCD monitor, 1920x1080, LED-250nit, VGA, DVI, OSD front,
w/o-stand & speaker 5-wire resistive touch (USB) Intel Atom BayTrail,
Celeron-J1900 quad cores processor, 2.0GHz Integrated in Fanless
Memory 4GB DDR3 1333MHz, 2 x SO-DIMM, up to 8GB system memory
1 x VGA, 1 x RS232 + Audio, 2 x LAN, 3 x USB, Storage 32 GB SSD

IP66

Model: ECHW2150SIP-J-C1D2-TR

FEATURES:

- Modularize mechanical design provides flexible product configuration and easy maintenance
- Optional build-in touch screen for interactive application
- Gas and Oil application
- Compliance ATEX directive 94/9/EG II 2G Ex d ia IIA T6
- Compliance Class 1 Division 2, ATEX Zone 2

Water Proof Solution, Full IP/NEMA4 Rating
front and back
Stainless and Aluminum Housing Chassis Design

Glass Protective Glass at front

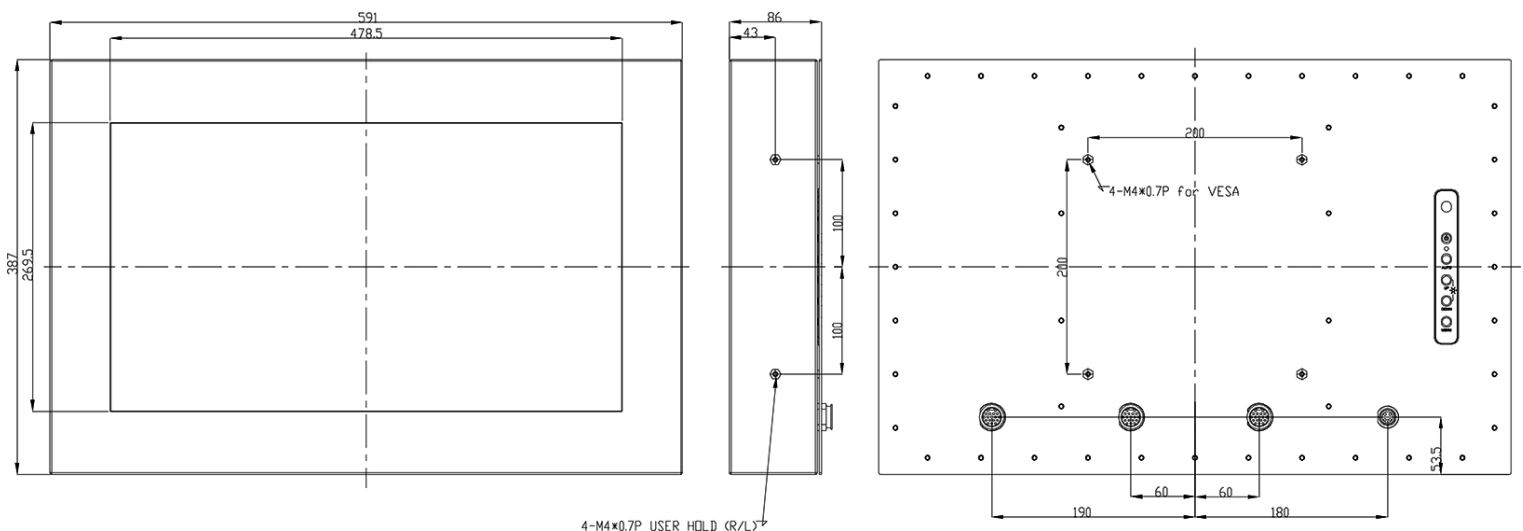Optional High Brightness and Touch screen

- **IP65 Water and Dust proof connection** for a higher protection
- **All Connectors are facing back with IP66 water proof connectors**

SPECIFICATIONS:

Panel	Cell Type / Glass Surface	TFT LCD
	Aspect Ratio / Size	Wide / 21.5" viewable diagonal area
	Active Area / Pixel Pitch	476.64(H) x 268.11(V) mm / 0.248(H) x 0.248(V) mm
	Native Resolution / Colors	1920(H) x 1080(V) / 16.7M
	Brightness / Contrast	250 cd/m^2 (typ) / 1000 : 1
	Response Time	< 5 ms
	Viewing Angle (typical)	H.170° (- 85° ~ + 85°) , V. 160° (- 80° ~ + 80°)
	Light Source	LED backlight, Long life, 35,000 hrs (typ)
System	CPU	Intel Celeron J1900 Processor
	BIOS	UEFI
	System / Graphic Chipset	Intel® Gen7 Intel Graphics DX 11*, OGL3.2
	System Memory	Dual Channel DDR3 1333 MHz SDRAM, Max up to 8GB
	HDD	32 GB SSD
	I/O port	1 x VGA
		3 x USB
		1 x COM (RS232)
		2 x LAN, Mic-in, Line-out
	Expansion	1 x Mini PCI-e
Power	Power Input	**12V DC** input with external power adapter
	Power Consumption	36.25 Watt, <1 Watt
Operating Condition	Temperature / Humidity	-20 ºC ~ 60ºC (-4 ºF ~ 140ºF) , 10% ~ 90% (no condensation)
Dimensions	Physical	Please refer to Drawing
	Carton	W x H x D = TBD

5 Wires Resistive Touch	Resolution	2048 x 2048
	Touch Method	Finger, gloved hand or any other pointer
	Touch Accuracy	± 2mm (for 42" screen) over 90% of the touch sensitive area

MECHANICAL DRAWING:

LCD Options:

LED Backlight Options
Introducing LED backlight options for monitors for energy efficiency and a brighter screen.

TouchScreen Options
Our LCD has a wide selection option to choose which touchscreen.technology suits for you.

	Four-WireResistive	Five-Wire Resistive	Capacitive
PRODUCT SIZE	1.7" - 24"	10.4" - 24"	12" - 24"
TOUCH LIFE	1 – 2 million touches	30 – 35million touches	100 million touches
SCRATCH RESISTANCE	Hard Coated	Hard Coated	Hard Coated (SiO²)
CONTAMINANT RESISTANCE	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers
INPUT METHOD	Finger, Gloved Hand, Stylus	Finger, Gloved Hand, Stylus	Finger
CONTROLLER	USB, RS232	USB, RS232	USB, RS232

VIDEO Input Options:
For Video inputs options:

DVI, DVI+HDMI, SVideo+AV, SVideo+AV+DVI, AV+Looping, DVI+AV+Looping, HD-SDI, BNC(PAL/NTSC)

Optical Bonding Options
- Optical Bonding provides the best reduction of ambient light washout of any commercially available enhancement technology.
- Optical Bonding has a lower cost than most other competing technologies.
- Optical Bonding offers superior ruggedization, enhancing the display durability under vibration, shock and other environmental extremes.
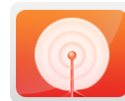
RS-232 Remote Control Options
Remote Control Protocol: Command Code to set system

9-36V DC Input Options
iTech offers a selection of DC input from 9V to 36V

Light Sensor and Motion Sensor Options
iTech LCD offers Light and Motion Sensor

Privacy Filter
Front Glass Options:
- Anti Reflective AR Glass 3mm
- Anti Reflective AR Glass 6mm Vandal-Resistance
- Anti Reflective AR Glass 8mm Vandal-Resistance
- Anti Glare AG Glass 3mm