



ThinManager® SW



SW | Industrial Workstation (ThinManager®)

DYNICS SW is a wide screen PC-based HMI featuring a powerful dual core processor. With an ThinManager® enabled system, the SW-BTMI is a viable drop-in replacement for industrial HMI solution applications.

- Drop-In Replacement for Proprietary Systems
- Fan-less (No Moving Parts)
- 100~240VAC / 24VDC Power Entry
- ThinManager® Ready

DISPLAY SPECIFICATIONS

SIZE	12.1"	15.6"	18.5"	21.5"	24"
RESOLUTION	FHD 1920 x 1080	FHD 1920 x 1080	FHD 1920 x 1080	FHD 1920 x 1080	FHD 1920 x 1080
VIEW ANGLE	H: -80°/+80° V: -80°/+80°	H: -80°/+80° V: -80°/+80°	H: -85°/+85° V: -80°/+80°	H: -89°/+89° V: -89°/+89°	H: -89°/+89° V: -89°/+89°
CONTRAST	800:1	800:1	1500:1	5000:1	3000:1
BRIGHTNESS	450 nits	400 nits	400 nits	300 nits	300 nits
ASPECT RATIO	16:9	16:9	16:9	16:9	16:9
LENS	5-Wire Analog Resistive (Touch Screen)				
LCD LIFE	50,000 Hour Backlight Half-Life				
BEZEL	NEMA 4 Powder Coat Finish – Suitable for mounting on a flat surface of an enclosure rated Type 3R, 3S, 4, 5, and / or 12 (IP66 Self-Declared) (NEMA 4X Stainless Steel Food Grade Available, Call DYNICS)				

PC SPECIFICATIONS

	Intel® Apollo Lake
COMPUTER I/O	
1Gb Ethernet Ports	2x
RS232/422/85 Ports	1x
RS232 Ports	3x
VGA Port	1x
HDMI Port	1x
USB 2.0 Ports	2x
USB 3.0 Ports	2x
Audio Jack (Line-Out)	1x
CPU	Intel® Apollo Lake N3350
CPU SPEED	Up to 2.4 GHz, 2MB Cache (2 Cores, 2 Threads)
MEMORY	4GB DDR3
POWER SUPPLY	100~240VAC (3-Pin) / 24VDC (3-Pin) Power Entry
TEMPERATURE	Operating: 0°-50°C 32°-122°F Non-Operating: -25°-60°C -13°-140°F
RELATIVE HUMIDITY	Non-Condensing: 20% - 80%
SHOCK	Operating: 10G Non-Operating: 15G
VIBRATION	Operating: 1.0G from 57~2000Hz Non-Operating: 2.5G from 57~2000Hz
THINMANAGER®	ThinManager® Enabled
THINMANAGER® SERVER SYSTEM REQUIREMENTS	Minimum requirements ThinManager® 11.0 or newer, TermCap 9.12.1.43 or newer, and firmware package 11.0.0 or newer; Recommended ThinManager® V12.0, no updates required. Termcap.db.9.12.1.43 termcap file TermPack-11.0.0.pkg firmware package
INCLUDED COMPLIANCE	1x 6ft. Power Cable - USA: UL Listed, UL61010-1+UL 61010-2-201, FCC 47CFR Part 15 Class A - Canada: cUL Listed, CSA C22.2 No. 61010-1-12+CSA C22.2 NO. 61010-2-201, ICES-001, Class A - EU: RoHS Directive 2011/65/EU, EN 50581, EMC Directive 2014/30/EU, EN 61326-1, Low Voltage Directive 2014/35/EU, EN 61010-1+EN 61010-2-201
WARRANTY	24-Month limited warranty. Extended warranty available, contact DYNICS for more details.



ORDERABLE PART NUMBERS

Part Number	I/O Description
SW12PT-DC-TM-001	SW12 – 12.1" LCD WXGA 16:9 Aspect Ratio, 5-Wire Resistive Touch, NEMA 4 Black Powder Coat with Thin Manager Enabled: Intel Apollo Lake N3350 Dual Core up to 2.4GHz Turbo embedded processor, 4GB DDR3 RAM, 24VDC Power Entry (3-Pin Quick Disconnect Included), fanless, no moving parts, aluminum heat sink. I/O Ports: 2x 1Gb Ethernet, 2x USB 3.0, 2x USB 2.0, 1x RS232/422/485, 3x RS232, 1x VGA, 1x HDMI, 1x Audio Jack (line-out)
SW12PT-AC-TM-001	SW12 – 12.1" LCD WXGA 16:9 Aspect Ratio, 5-Wire Resistive Touch, NEMA 4 Black Powder Coat with Thin Manager Enabled: Intel Apollo Lake N3350 Dual Core up to 2.4GHz Turbo embedded processor, 4GB DDR3 RAM, 100~240 VAC Power Entry (6Ft Power Cable Included), fanless, no moving parts, aluminum heat sink. I/O Ports: 2x 1Gb Ethernet, 2x USB 3.0, 2x USB 2.0, 1x RS232/422/485, 3x RS232, 1x VGA, 1x HDMI, 1x Audio Jack (line-out)
SW15PT-DC-TM-001	SW15 – 15.6" LCD FHD 16:9 Aspect Ratio, 5-Wire Resistive Touch, NEMA 4 Black Powder Coat with Thin Manager Enabled: Intel Apollo Lake N3350 Dual Core up to 2.4GHz Turbo embedded processor, 4GB DDR3 RAM, 24VDC Power Entry (3-Pin Quick Disconnect Included), fanless, no moving parts, aluminum heat sink. I/O Ports: 2x 1Gb Ethernet, 2x USB 3.0, 2x USB 2.0, 1x RS232/422/485, 3x RS232, 1x VGA, 1x HDMI, 1x Audio Jack (line-out)
SW15PT-AC-TM-001	SW15 – 15.6" LCD FHD 16:9 Aspect Ratio, 5-Wire Resistive Touch, NEMA 4 Black Powder Coat with Thin Manager Enabled: Intel Apollo Lake N3350 Dual Core up to 2.4GHz Turbo embedded processor, 4GB DDR3 RAM, 100~240 VAC Power Entry (6Ft Power Cable Included), fanless, no moving parts, aluminum heat sink. I/O Ports: 2x 1Gb Ethernet, 2x USB 3.0, 2x USB 2.0, 1x RS232/422/485, 3x RS232, 1x VGA, 1x HDMI, 1x Audio Jack (line-out)
SW19PT-DC-TM-001	SW19 – 18.5" LCD FHD 16:9 Aspect Ratio, 5-Wire Resistive Touch, NEMA 4 Black Powder Coat with Thin Manager Enabled: Intel Apollo Lake N3350 Dual Core up to 2.4GHz Turbo embedded processor, 4GB DDR3 RAM, 24VDC Power Entry (3-Pin Quick Disconnect Included), fanless, no moving parts, aluminum heat sink. I/O Ports: 2x 1Gb Ethernet, 2x USB 3.0, 2x USB 2.0, 1x RS232/422/485, 3x RS232, 1x VGA, 1x HDMI, 1x Audio Jack (line-out)
SW19PT-AC-TM-001	SW19 – 18.5" LCD FHD 16:9 Aspect Ratio, 5-Wire Resistive Touch, NEMA 4 Black Powder Coat with Thin Manager Enabled: Intel Apollo Lake N3350 Dual Core up to 2.4GHz Turbo embedded processor, 4GB DDR3 RAM, 100~240 VAC Power Entry (6Ft Power Cable Included), fanless, no moving parts, aluminum heat sink. I/O Ports: 2x 1Gb Ethernet, 2x USB 3.0, 2x USB 2.0, 1x RS232/422/485, 3x RS232, 1x VGA, 1x HDMI, 1x Audio Jack (line-out)
SW22PT-DC-TM-001	SW22 – 21.5" LCD FHD 16:9 Aspect Ratio, 5-Wire Resistive Touch, NEMA 4 Black Powder Coat with Thin Manager Enabled: Intel Apollo Lake N3350 Dual Core up to 2.4GHz Turbo embedded processor, 4GB DDR3 RAM, 24VDC Power Entry (3-Pin Quick Disconnect Included), fanless, no moving parts, aluminum heat sink. I/O Ports: 2x 1Gb Ethernet, 2x USB 3.0, 2x USB 2.0, 1x RS232/422/485, 3x RS232, 1x VGA, 1x HDMI, 1x Audio Jack (line-out)
SW22PT-AC-TM-001	SW22 – 21.5" LCD FHD 16:9 Aspect Ratio, 5-Wire Resistive Touch, NEMA 4 Black Powder Coat with Thin Manager Enabled: Intel Apollo Lake N3350 Dual Core up to 2.4GHz Turbo embedded processor, 4GB DDR3 RAM, 100~240 VAC Power Entry (6Ft Power Cable Included), fanless, no moving parts, aluminum heat sink. I/O Ports: 2x 1Gb Ethernet, 2x USB 3.0, 2x USB 2.0, 1x RS232/422/485, 3x RS232, 1x VGA, 1x HDMI, 1x Audio Jack (line-out)
SW24PT-DC-TM-001	SW24 – 24" LCD FHD 16:9 Aspect Ratio, 5-Wire Resistive Touch, NEMA 4 Black Powder Coat with Thin Manager Enabled: Intel Apollo Lake N3350 Dual Core up to 2.4GHz Turbo embedded processor, 4GB DDR3 RAM, 24VDC Power Entry (3-Pin Quick Disconnect Included), fanless, no moving parts, aluminum heat sink. I/O Ports: 2x 1Gb Ethernet, 2x USB 3.0, 2x USB 2.0, 1x RS232/422/485, 3x RS232, 1x VGA, 1x HDMI, 1x Audio Jack (line-out)
SW24PT-AC-TM-001	SW24 – 24" LCD FHD 16:9 Aspect Ratio, 5-Wire Resistive Touch, NEMA 4 Black Powder Coat with Thin Manager Enabled: Intel Apollo Lake N3350 Dual Core up to 2.4GHz Turbo embedded processor, 4GB DDR3 RAM, 100~240 VAC Power Entry (6Ft Power Cable Included), fanless, no moving parts, aluminum heat sink. I/O Ports: 2x 1Gb Ethernet, 2x USB 3.0, 2x USB 2.0, 1x RS232/422/485, 3x RS232, 1x VGA, 1x HDMI, 1x Audio Jack (line-out)



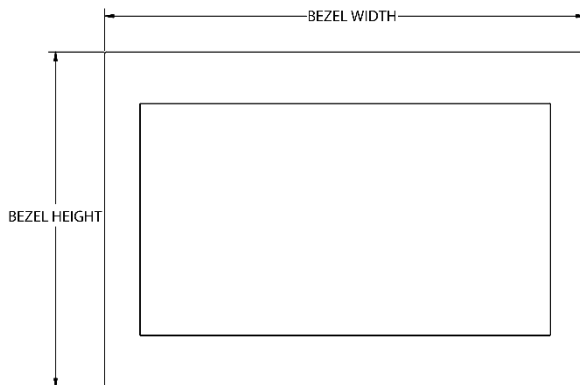
DIMENSIONS, WEIGHT AND POWER CONSUMPTION

	12.1"	15.6"	18.5"	21.5"	24"	
HEIGHT (Bezel)	9.488" (241.0mm)	12.205" (310.0mm)	13.268" (337.0mm)	14.961" (380.0mm)	15.500" (393.7mm)	
WIDTH (Bezel)	12.992" (330.0mm)	16.339" (415.0mm)	19.016" (483.0mm)	22.047" (559.9mm)	24.640" (625.8mm)	
HEIGHT (Cutout)	8.701" (221.0mm)	11.417" (289.9mm)	12.520" (318.0mm)	14.213" (361.0mm)	14.350" (364.5mm)	
WIDTH (Cutout)	12.205" (310.0mm)	15.551" (394.9mm)	18.268" (464.0mm)	21.339" (542.0mm)	23.490" (596.6mm)	
DEPTH	4.060" (103.1mm)	4.060" (103.1mm)	4.060" (103.1mm)	4.060" (103.1mm)	4.060" (103.1mm)	
WEIGHT	9.7lbs.*	14 lbs.*	15 lbs.*	20 lbs.*	24 lbs.*	
POWER CONSUMPTION	AC	28 Watts**	40 Watts**	45 Watts**	60 Watts**	85 Watts**
	DC	28.4 Watts**	35 Watts**	50 Watts**	50 Watts**	55 Watts**

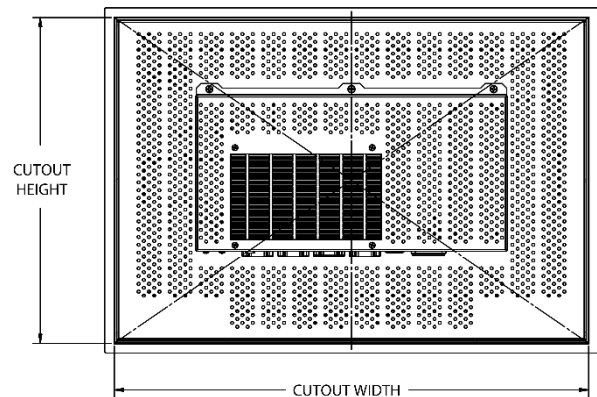
*Weights are approximate, contact DYNICS for details.

**Power Consumption based on maximum ratings, actual ratings vary significantly based on components used.

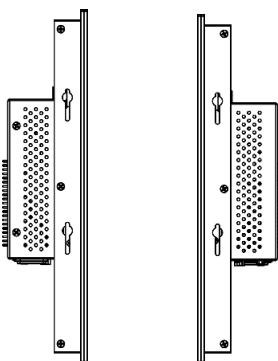
MECHANICAL DRAWINGS FRONT VIEW



BACK VIEW



SIDE VIEW

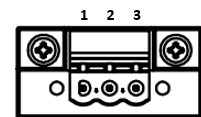


POWER ENTRIES

(3-Pin) 100~240VAC



(3-Pin) 24VDC



PIN 1: V+
PIN 2: ⏏ (Chassis Ground)
PIN 3: V-

All measurements are in inches and pounds, unless noted. Pictures and drawings are not to scale. Estimated weight may change depending on options.
DYNICS Reserves the right to change, modify, upgrade, or discontinue any part of this datasheet without any prior notice.