



## ThinManager® BBK

### BBK | Industrial Workstation (ThinManager®)

DYNICS BBK is a slim industrial grade display that is configured with ThinManager® enabled firmware. This slim form factor is a full HD display, making the BBK a great replacement for consumer grade monitors in an industrial environment.

- Optional Display Stand
- Universal VESA Mounting Ready
- 100~240VAC / 24VDC Power Entry
- ThinManager® Ready

### DISPLAY SPECIFICATIONS

SIZE	21.5"	24"
<b>RESOLUTION</b>	FHD 1920 x 1080	FHD 1920 x 1080
<b>VIEW ANGLE</b>	H: -89°/+89° V: -89°/+89°	H: -89°/+89° V: -89°/+89°
<b>CONTRAST</b>	5000:1	3000:1
<b>BRIGHTNESS</b>	300 nits	300 nits
<b>ASPECT RATIO</b>	16:9	16:9
<b>LENS</b>	5-Wire Analog Resistive (Touch Screen)	
<b>LCD LIFE</b>	50,000 Hour Backlight Half-Life	
<b>ENCLOSURE</b>	Black Powder Coat Finish	

### PC SPECIFICATIONS

<b>COMPUTER I/O</b>	<b>Intel® Apollo Lake</b>
1Gb Ethernet Ports	2x
USB 3.0 Ports	2x
<b>CPU</b>	Intel® Apollo Lake N3350
<b>CPU SPEED</b>	Up to 2.4 GHz, 2MB Cache (2 Cores, 2 Threads)
<b>MEMORY</b>	4GB DDR3
<b>POWER SUPPLY</b>	100~240VAC (3-Pin) / 24VDC (3-Pin) Power Entry
<b>TEMPERATURE</b>	Operating: 0°-50°C   32°-122°F Non-Operating: -25°-60°C   -13°-140°F
<b>RELATIVE HUMIDITY</b>	Non-Condensing: 20% - 80%
<b>THINMANAGER®</b>	ThinManager® Enabled
<b>THINMANAGER® SERVER SYSTEM REQUIREMENTS</b>	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. <b>Termcap.db.9.12.1.43</b> termcap file <b>Termpack-11.0.0.pkg</b> firmware package
<b>OPTIONAL COMPLIANCE WARRANTY</b>	Display Stand European Union Directive 2011/65/EU (RoHS) 24-Month limited warranty. Extended warranty available, contact DYNICS for more details.

(See Page 2 for Orderable Part Numbers)



## ThinManager® BBK

### ORDERABLE PART NUMBERS

Part Number	I/O Description
BBK22PT-DC-TM-001	BBK22 – 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. 1x 1Gb Ethernet, 2x USB 3.0
BBK22PT-AC-TM-001	BBK22 – 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. 1x 1Gb Ethernet, 2x USB 3.0
BBK24PT-DC-TM-001	BBK24 – 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. 1x 1Gb Ethernet, 2x USB 3.0
BBK24PT-AC-TM-001	BBK24 – 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. 1x 1Gb Ethernet, 2x USB 3.0

### DIMENSIONS, WEIGHT AND POWER CONSUMPTION

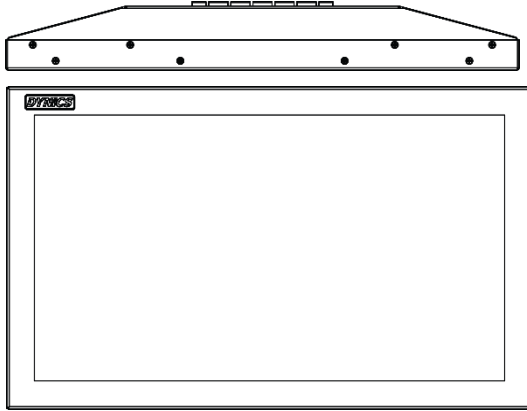
	21.5"	24"
<b>HEIGHT</b>	12.95" (328.9mm)	14.426" (366.4mm)
<b>WIDTH</b>	21.098" (535.8mm)	23.566" (598.6mm)
<b>DEPTH</b> (Monitor Only)	2.583" (65.6mm)	2.602" (66.1mm)
<b>WEIGHT</b>	20 lbs.*	19 lbs.*
<b>POWER CONSUMPTION</b>	50 Watts**	55 Watts**

\*Weights are approximate, contact DYNICS for details.

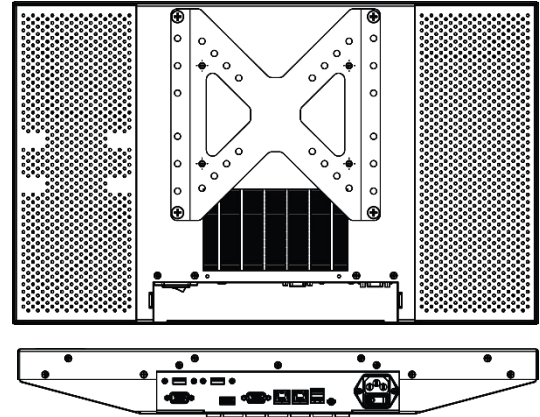
\*\*Power Consumption based on maximum ratings, actual ratings vary significantly based on components used.



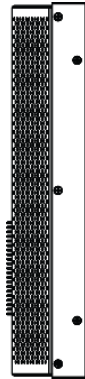
### MECHANICAL DRAWINGS FRONT AND TOP VIEW



### BACK AND BOTTOM VIEW



### SIDE VIEW

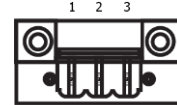


### POWER ENTRIES

(3-Pin) 100~240VAC



(3-Pin) 24VDC



Pin 1: V+  
Pin 2: Chassis GND  
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