


Industrial Automation - Products & Configurations

VK3200-TF BASIC SYSTEM		POWER [W]
Basic configuration	LCD TFT 15,6" (HD) • Touch-Screen • Intel® Celeron dual core 3765U 1,9Ghz • 2GB RAM • Aluminum and polycarbonate TrueFlat front panel • fanless • UBIQUITY BASIC Win32 runtime • 24V DC isolated power supply • Top arm mounting attachment predisposition with IP65 adapter plate • Rear closing cover for connectors access without hole • With Button Area without elements and internal terminals • 12 months warranty	43
DISPLAY & TOUCH-SCREEN	15,6" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 80°:80°/80°:80°	
	15,6" W Touch-Screen 16:9 • 5 wires resistive technology • Controller on board	
	15,6" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/85°:85°	+ 10
	15,6" W Touch-Screen 16:9 • 5 wires resistive technology • Controller on board	
	18,5" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 300 cd/m2 • Viewing angle L:R/U:L (typ): 75°:75°/70°:70°	+ 11
	18,5" W Touch-Screen 16:9 • 5 wires resistive technology • Controller on board	
	18,5" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/85°:85°	+ 22
18,5" W Touch-Screen 16:9 • 5 wires resistive technology • Controller on board		
21,5" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 300 cd/m2 • Viewing angle L:R/U:L (typ): 89°:89°/89°:89°	+ 21	
21,5" W Touch-Screen 16:9 • 5 wires resistive technology • Controller on board		

VK3200-TFM BASIC SYSTEM		POWER [W]
Basic configuration	LCD TFT 15,6" (HD) • Touch-Screen Multitouch • Intel® Celeron dual core 3765U 1,9Ghz • 2GB RAM • Aluminum and glass TrueFlat front panel • fanless • UBIQUITY BASIC Win32 runtime • 24V DC isolated power supply • Top arm mounting attachment predisposition with IP65 adapter plate • Rear closing cover for connectors access without hole • With Button Area without elements and internal terminals • 12 months warranty	43
DISPLAY & TOUCH-SCREEN	15,6" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 80°:80°/80°:80°	
	15,6" W Touch-Screen • P-CAP projected capacitive multitouch	
	15,6" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/85°:85°	+ 10
	15,6" W Touch-Screen • P-CAP projected capacitive multitouch	
	18,5" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 300 cd/m2 • Viewing angle L:R/U:L (typ): 75°:75°/70°:70°	+ 11
	18,5" W Touch-Screen • P-CAP projected capacitive multitouch	
	18,5" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/85°:85°	+ 22
	18,5" W Touch-Screen • P-CAP projected capacitive multitouch	
	21,5" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 300 cd/m2 • Viewing angle L:R/U:L (typ): 89°:89°/89°:89°	+ 21
	21,5" W Touch-Screen • P-CAP projected capacitive multitouch	
24" W LCD TFT 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 300 cd/m2 • Viewing angle L:R/U:L (typ): 89°:89°/89°:89°	+ 25	
24" W Touch-Screen • P-CAP projected capacitive multitouch		

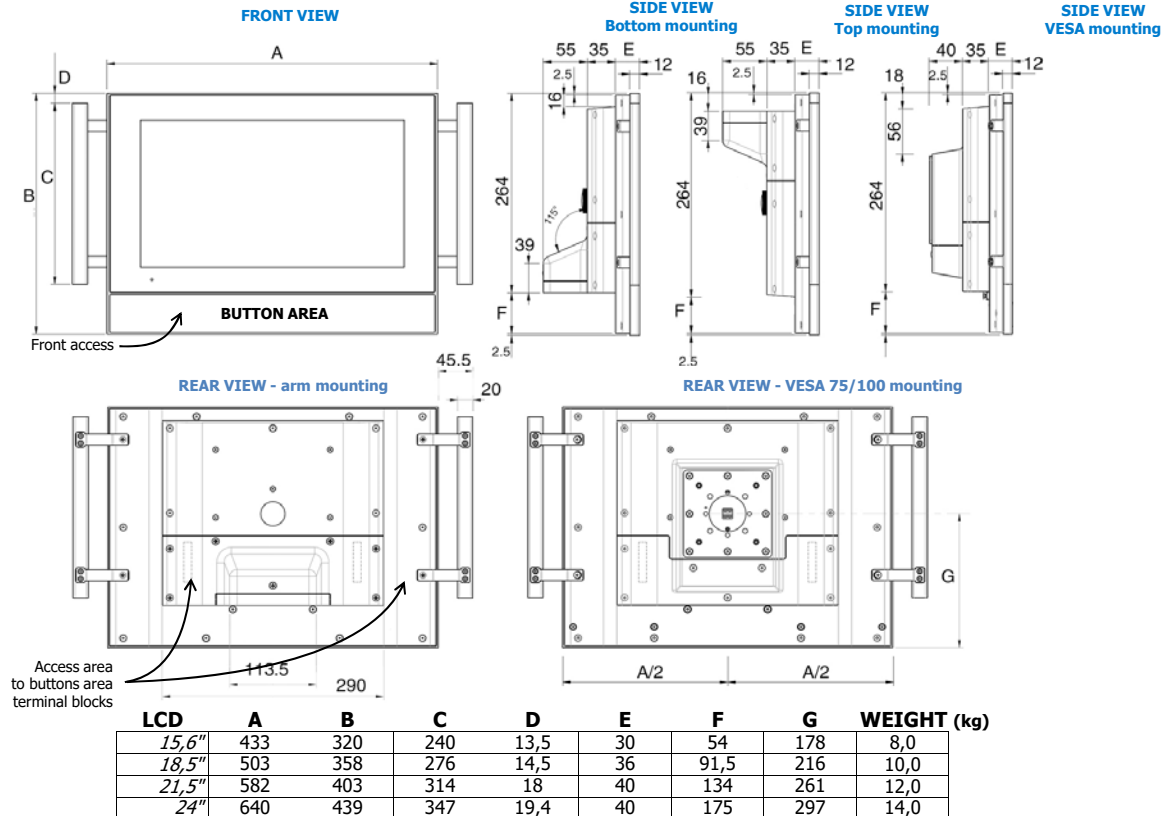
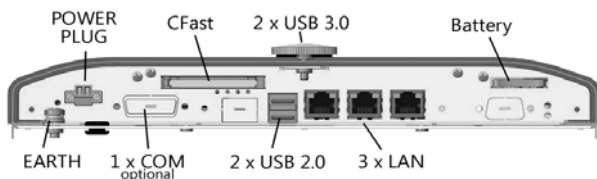
COMMON VARIANTS		POWER [W]
REMOTE ASSISTANCE	ASEM UBIQUITY BASIC Win32 runtime	-
PROCESSOR	Intel® Celeron 3765U 1,9Ghz, 2 cores – 2 threads – 2MB smart cache	
	Intel® Core™ i3-5010U 2,1Ghz, 2 cores – 4 threads – 3MB smart cache	+ 1
	Intel® Core™ i5-5350U 1,8Ghz (2,9Ghz Turbo), 2 cores – 4 threads – 3MB smart cache	+ 3
	Intel® Core™ i7-5650U 2,2Ghz (3,1Ghz Turbo), 2 cores – 4 threads – 4MB smart cache	+ 4
RAM MEMORY	2 GB • 1 module SODIMM DDR3-1600	
	4 GB • 1 module SODIMM DDR3-1600	+ 1
	8 GB • 1 module SODIMM DDR3-1600	+ 2
MECHANICAL PREDISPOSITION	Top arm mounting attachment predisposition	
	Bottom arm mounting attachment predisposition	-
	VESA 75/100 attachment predisposition	-
MECHANICAL ADAPTER PLATES > note 2	IP65 mechanical adapter plate for custom system	-
	IP65 mechanical adapter plate for RITTAL system CP 40 serie 90x71 support	-
	IP65 mechanical adapter plate for tilting adaptor +100°/-60° RITTAL system CP 40 serie 120x65 support	-
	IP65 mechanical adapter plate for HASEKE system ULT KUPPLUNG 48 serie	-
	IP65 mechanical adapter plate for ROLEC system TARAPLUS serie	-
REAR COVER	Rear closing cover for connectors access without hole • IP65 protection grade	
	Rear closing cover for connectors access with Ø 19mm hole and IP65 rubber cap for the possible USB devices cabling at customer own charge (for keyboard and mouse)	-
BUTTON AREA	Button Area without elements and internal terminals	-
	Customized Button Area with interfaces, signal indicators, pushbuttons, emergency stop pushbutton and selector switches kit with wired terminals	-

OPTIONS		POWER [W]
SSD mSATA	SSD mSATA (U110/X110), SATA 3, 6Gb/s (Solid State Disk), MLC	2
CFAST	CFast SATA 3	1
COMMUNICATION PORTS	1 x RS232/422/485 serial port (DB15M) > note 3	1
	1 x RS232/422/485 optoisolated serial port (DB15M) > note 3	1
HANDLES > note 4	LCD 15,6" Aluminum side handles • rectangular section • left and right sides	-
	Aluminum perimetral protection handle • circular section • left, right and bottom sides	-
	LCD 18,5" Aluminum side handles • rectangular section • left and right sides	-
	Aluminum perimetral protection handle • circular section • left, right and bottom sides	-
	LCD 21,5" Aluminum side handles • rectangular section • left and right sides	-
	Aluminum perimetral protection handle • circular section • left, right and bottom sides	-
KEYBOARD TRAY	LCD 24" Aluminum side handles • rectangular section • left and right sides	-
	Aluminum perimetral protection handle • circular section • left, right and bottom sides	-
	Keyboard support tray kit for LCD 15,6"	-
	Keyboard support tray kit for LCD 18,5"	-
WARRANTY EXTENSION	Keyboard support tray kit for LCD 21,5"	-
	Keyboard support tray kit for LCD 24"	-
	Warranty extension to 18 months on basic system and its variants	
	Warranty extension to 24 months on basic system and its variants	
	Warranty extension to 36 months on basic system and its variants	

NOTES	
For power consumption calculation we recommend to read the tips on pg. 4. The power values does not include the absorbed power of USB devices connected to the ports.	
1: For the customized Button Area elements list, see pg.133 The button area is delivered assembled and internally cabled. Independently from the LCD size it can be installed max 8 elements among signal indicators, pushbuttons, selectors, key switches and the emergency stop pushbutton.	
2: The systems with VESA 75/100 attachment predisposition do NOT need the adapter plates	
3: Communication ports cannot be installed together	
4: Side handles and perimetral handle cannot be installed together	



TECHNICAL SPECIFICATIONS	
Case	Installation For VESA 75/100 or pole or suspension arm mounting systems compatible with RITTAL (CP 40) / ROLEC (TARAPLUS) / HASEKE (ULT KUPPLUNG 48)
	material Aluminum alloy EN AB46400 anti-scratchable painted
	color RAL 9006
Overall dimensions & weight:	See details on the related section
Front panel	LCD TF Aluminum TrueFlat • Polycarbonate Pantone Black C color
	LCD TFM Aluminum and tempered glass TrueFlat • Black color
	Button Area Aluminum TrueFlat • Polycarbonate Pantone Cool Grey 4C color
Touchscreen	TF 5 wires resistive technology • overlaminated with OCA (Optical Clear Adhesive) • on board controller
	TFM Projective capacitive multitouch
Protection grade	Full IP65
Power supply	24VDC isolated • Input voltage: 18÷32V DC
Motherboard	Type "All-In-One" type • ASEM 1291
	RTC / CMOS Replaceable C2032 battery with external access
	Watch-dog Time programmable
Intel platform	Processor Intel® Celeron™ and fifth generation Intel® Core™ processors • Broadwell ULT dual core 15W
	Chipset Intel® Broadwell PCH-LP chipset (Platform Controller Hub - Low Power) • Included into processor's chip
Operating System	O.S. certified by ASEM Microsoft Windows 10 IoT Enterprise 2016 64bit • Microsoft Windows 8.1 Industry Pro 32/64bit • Windows 7 Pro/Ultimate 32/64bit • Windows Embedded Standard 7P 32/64 bit Only for VK3200-TF also Windows Embedded Standard 7E 32/64 bit Other operating systems, such as VxWorks, QNX, etc., have not been certified by ASEM but they are reasonably supported by the Intel platform after verification of compatibility
Software	Remote assistance ASEM UBIQUITY BASIC Win32 runtime license with ASEM sticker
Video controller	Intel® HD Graphics integrated into Intel® Celeron™ microprocessor • 850MHz • LVDS 8bit/color digital interface Intel® HD Graphics 5500 integrated into Intel® Core™ i3 microprocessor • 900MHz • LVDS 8bit/color digital interface Intel® HD Graphics 6000 integrated into Intel® Core™ i5, i7 microprocessors • 1GHz • LVDS 8bit/color digital interface
Video memory	Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system
System memory	DDR3-1066 type • 1 SODIMM module • min 2GB • max 8GB
Mass storage controller	1 x mSATA SATA 3, 6Gb/s • Integrated on board
Cfast slot	1 x slot Cfast (bootable) external access (remove rear panel before), SATA 2, 3Gb/s
Rear external access interfaces	2 x USB 3.0 (Type A, protected, IP65)
Rear internal access interfaces	3 x Ethernet 10/100/1000 Mbps (RJ45 - 2 x Intel® I210-AT, 1 x Intel® I218-LM) • 2 x USB 2.0 (Type A)
Environmental specifications	Operating temperature: 0° ÷ +50°C • Storage temperature: -20° ÷ +60°C • Humidity: 80% (non-condensing)
Approvals	CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • UL 61010
Standard warranty	12 months • Warranty management by ASEM headquarters

DIMENSIONS (mm)

CONNECTORS VIEW

FIXING PLATE HOLES - arm mounting
