


Industrial Automation - Products & Configurations

RT30-TF BASIC SYSTEM			POWER [W]
Basic configuration		LCD TFT 5,7" • Touch-Screen • ARM Cortex A8, 1 GHz • 1 GB RAM • 256 MB NAND-Flash • 4GB eMMC PseudoSLC • fanless • Windows Embedded Compact 7 Pro with Datalight Reliance Nitro file system • ASEM System Manager • Aluminum and polycarbonate TrueFlat front panel • 12 months warranty	7
OPERATING SYSTEM	A	B	
	•	•	Microsoft Windows Embedded Compact 7 Pro with Datalight Reliance Nitro file system
	•	•	No operating system and no ASEM System Manager
FRONT PANEL	•	•	Aluminum TrueFlat front panel with touch-screen overlaminated with OCA (Optical Clear Adhesive) • ASEM logo serigraph printed
PROCESSOR	•	•	ARM Cortex A8 processor • i.MX535 • 1 GHz • 400Mhz memory bus • Soldered on board
DISPLAY & TOUCH-SCREEN	•	•	5,7" LCD TFT 4:3 • VGA, 640x480, 256K colors • backlight LED 500 cd/m2 • Viewing angle L:R/U:L (typ.): 70°:70°/45°:55° 5,7" touch-screen • 4 wires resistive technology • Controller integrated on board
	•	•	7" LCD TFT 15:9 • WVGA, 800x480, 16M colors • backlight LED 500 cd/m2 • Viewing angle L:R/U:L (typ.): 70°:70°/70°:60° 7" WIDE touch-screen • 4 wires resistive technology • Controller integrated on board
	•	•	8,4" LCD TFT 4:3 • SVGA, 800x600, 256K colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/80°:80° 8,4" touch-screen • 5 wires resistive technology • Controller integrated on board
	•	•	10,1" W LCD TFT 16:10 • WXGA, 1280x800, 16M colors • LED backlight, 400cd/m2 • Viewing angle L:R/U:L (typ.): 85°:85°/85°:85° 10,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board
	•	•	10,4" LCD TFT 4:3 • SVGA, 800x600, 16M colors • LED backlight , 400 cd/m2 • Viewing angle L:R/U:L (typ): 80°:80°/70°:70° 10,4" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board
	•	•	12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • LED backlight, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/80°:60° 12,1" touch-screen • 5 wires resistive technology • Controller integrated on board
	•	•	12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • LED backlight, 600 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/70°:70° 12,1" touch-screen • 5 wires resistive technology • Controller integrated on board
	•	•	12,1" W LCD TFT 16:10 • WXGA, 1280x800, 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 88°:88°/88°:88° 12,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board
	•	•	15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 85°:85°/85°:85° 15" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board
	•	•	15,6" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80° 15,6" W Touch-Screen 16:9 • 5 wires resistive technology • Controller integrated on board
POWER SUPPLY	•	•	Power supply section with backup for microinterruptions
WARRANTY	•	•	12 months on system and its variants

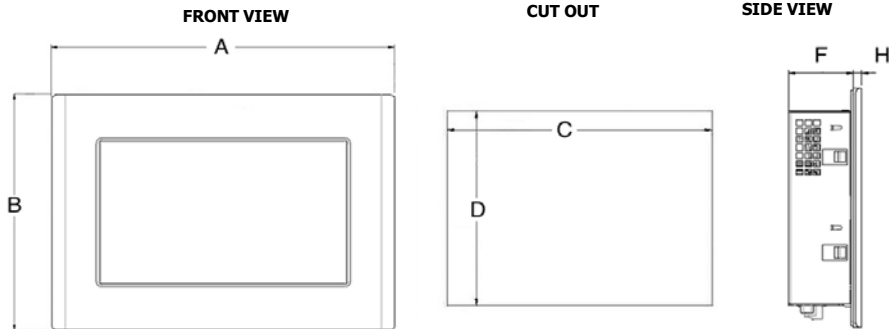
OPTIONS			
WARRANTY EXTENSION	•	•	Warranty extension to 18 months on basic system and its variants
	•	•	Warranty extension to 24 months on basic system and its variants
	•	•	Warranty extension to 36 months on basic system and its variants

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.



TECHNICAL SPECIFICATIONS	
Case	Panel mount
Overall dimensions & weight	See details on the related section
Front Panel	Aluminum TrueFlat • Polycarbonate Pantone Cool Grey 4C color • ASEM logo serigraph printed
Touchscreen	resistive 4/5 • overlaminated with OCA (Optical Clear Adhesive)
Frontal protection	IP66, Enclosure type 4X (Indoor use only)
Operating System	Microsoft Windows Embedded Compact 7 Pro license with Datalight Reliance Nitro file system • Microsoft olographic sticker Optionally can be supplied without operating system
Software	Utility ASEM System Manager • Backup&Restore, Screensaver, Antialiasing • Only with WEC7 O.S.
Power supply	Input voltage 18÷36V DC • Power supply section integrated on board optional Backup for microinterruption with supercapacitors • Max interruption: 500ms • First load: 30" • Rearm time: 15"
Motherboard	"All-In-One" type • ASEM R131/A
Processor	ARM Cortex A8 • i.MX535 • 1 GHz, 400 MHz system memory bus • Soldered on board • GPU (Graphic Processor Unit) integrated
RAM memory	1 GB DDR3-800 • Soldered on board
Mass storage	NAND-Flash 256MB Read-Only • for operating system and runtime eMMC (Solid State Disk) 4GB PseudoSLC, 8bit, file system organization • for projects and applications
SD slot	1 x Slot SD/SDHC v2.0 integrated on board • external access
Rear access interfaces	LAN1 Ethernet 100 Mbps (RJ45) • LAN2 Ethernet 10/100 Mbps (RJ45) • 2 x USB 2.0 (Type-A / host)
Rear access serial interfaces	1 x RS-232/422/485 (DB15M) MPI protocol compatible up to 187,5Kbit/s
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) • cULus LISTED (UL508) • ATEX 2014/34/UE Zone 2/22 II 3 G D
Standard warranty	12 months • Warranty management by ASEM headquarters

DIMENSIONS (mm)


LCD TFT	CUT OUT "A"				CUT OUT "B"				H	F	Weight (Kg)
	A	B	C	D	A	B	C	D			
5,7"	175	145	164	134	-	-	-	-	5	40	0,9
7"W	215	155	204	144	204	147,6	197	140,5	5	40	1,2
8,4"	255	190	243	179	-	-	-	-	5	48,5	1,4
10,1"W	293	201,5	285	193,5	-	-	-	-	5	48,5	1,6
10,4"	295	230	283	219	-	-	-	-	5	48,5	1,8
12,1"	325	260	313	249	-	-	-	-	5	48,5	2,1
12,1"W	321	222,5	313	215	-	-	-	-	5	48,5	2,0
15"	390	305	378	294	-	-	-	-	6	48,5	3,3
15,6"	420	265	410	255	-	-	-	-	6	48,5	3,3

CONNECTORS VIEW (5,7")
