Industrial Automation - Products & Configurations

RT31-TF BASIC SYSTEM	POWER [W]
Basic configuration — LCD TFT 7" ▪ Touch-Screen ▪ ARM Cortex A8, 800 MHz ▪ 1 GB RAM ▪ 256 MB NAND-Flash ▪ 4GB eMMC PsuedoSLC ▪ 1 optoisolated CAN channel ▪ fanless ▪ Windows Embedded Compact 7 Pro with Datalight Reliance Nitro file system ▪ ASEM System Manager ▪ Aluminum and polycarbonate TrueFlat front panel ▪ 12 months warranty	12

	A	B		POWER
OPERATING SYSTEM	●	●	Microsoft Windows Embedded Compact 7 Pro	-
	●	●	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 ▪ Freescale i.MX535 ▪ 1 GHz ▪ 400Mhz memory bus ▪ Soldered on board	
DISPLAY & TOUCH-SCREEN	●	●	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, 350 cd/m2 ▪ Viewing angle L:R/U:L (typ.): 75°:75°/60°:70° 8,4" touch-screen ▪ 5 wires resistive technology ▪ Controller integrated on board	- 1
	●		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	- 0
	●		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	+ 1
	●		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	+ 5
	●		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	+ 10
	●		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	+ 7
	●		15" LCD TFT 4:3 ▪ XGA, 1024x768, 16M colors ▪ LED backlight, 450 cd/m2 ▪ Viewing angle L:R/U:L (typ.): 80°:80°/70°:70° 15" Touch-Screen 4:3 ▪ 5 wires resistive technology ▪ Controller integrated on board	+ 8
	●		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	+ 8
POWER SUPPLY	●	●	Power supply section with backup for microinterruptions	+ 2
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 reccomend to read the tips on pg. 4. The power values does not include the absorbed power of USB devices connected to the ports.
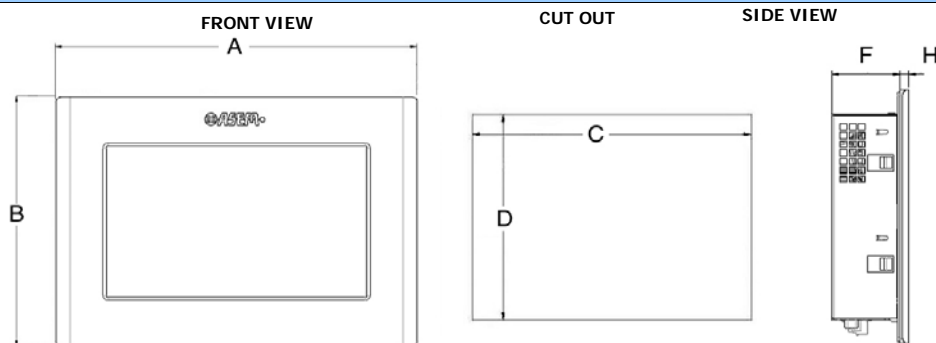
TECHNICAL SPECIFICATIONS

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 ▪ Isolated ▪ Power supply section integrated on board
optional	Backup for microinterruption with supercapacitors ▪ Max interruption: 500ms ▪ First load: 6' ▪ Rearm time: 90"
Motherboard	"All-In-One" type ▪ ASEM R133
Processor	ARM Cortex A8 ▪ Freescale i.MX537 ▪ 800 MHz, 400 MHz system memory bus ▪ Soldered on board ▪ GPU (Graphic Processor Unit) integrated
CAN controller	FlexCAN controller integrated into processor
RAM memory	1GB 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) ▪ 1 x CAN channel optoisolated (DB9M)
Rear access serial interfaces	1 x RS-232/422/485 (DB15M) MPI protocol compatibile 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)
Standard warranty	12 months ▪ Warranty management by ASEM headquarters

DIMENSIONS (mm)

FRONT VIEW   **CUT OUT**   **SIDE VIEW**

LCD TFT	CUT OUT "A"				CUT OUT "B"				H	F	Weight (Kg)
	A	B	C	D	A	B	C	D			
7"W	215	155	204	144	204	147,6	197	140,5	4	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"W	420	265	410	255	-	-	-	-	6	48,5	3,3

CONNECTORS VIEW (7")