RT40-TFM
fanless

Industrial Automation - Products & Configurations

RT40-TFM BASIC SYSTEM				POWER [W]
Basic configuration			LCD TFT 7" W ▪ P-CAP projected capacitive Touch-Screen ▪ Aluminum and tempered glass TrueFlat front panel ▪ ARM Cortex A9 i.MX6 DualLite, 1 GHz ▪ 1 GB RAM ▪ 4GB eMMC PseudoSLC ▪ fanless ▪ 12 months warranty	10

	A	B		⬇
FRONT PANEL	●	●	Aluminum and glass TrueFlat front panel with P-CAP projected capacitive touch-screen	-
				⬇
PROCESSOR	●	●	ARM Cortex A9 dual core processor ▪ i.MX6 DualLite ▪ 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°/60°:60°	
			7" W Touch-Screen 15:9 ▪ P-CAP projected capacitive multitouch touchscreen	
	●		10,1" W LCD TFT 16:10 ▪ WXGA, 1280x800, 16M colors ▪ LED backlight, 400cd/m2 ▪ Viewing angle L:R/U:L (typ.): 88°:88°/88°:88°	+ 2
			10,1" W Touch-Screen 16:10 ▪ P-CAP projected capacitive multitouch touchscreen	
	●		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°	+ 7
			12,1" W Touch-Screen 16:10 ▪ P-CAP projected capacitive multitouch touchscreen	
	●		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°	+ 8
			15,6" W Touch-Screen 16:9 ▪ P-CAP projected capacitive multitouch touchscreen	
				⬇
WARRANTY	●	●	12 months	-

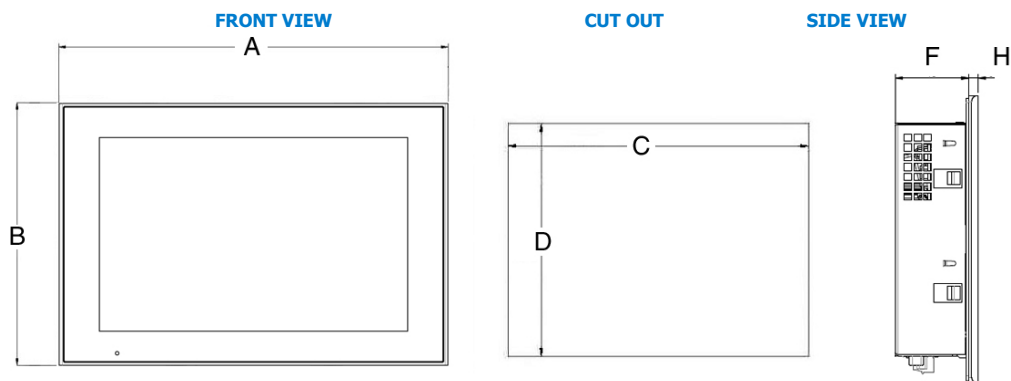| OPTIONS				POWER [W]
	A	B		⬇
OPERATING SYSTEM	●	●	Microsoft Windows Embedded Compact 7 Pro (Microsoft olographic sticker) with Datalight Reliance Nitro file system and ASEM System Manager	-
				⬇
MICROUPS & MRAM	●	●	MicroUPS, with backup function for microinterruptions max 500ms and 512kB MRAM (Magnetic RAM)	+ 9
				⬇
COMMUNICATION PORTS > note 1	●	●	1 x RS-485 (DB9M) isolated with terminations ▪ Without MPI protocol support	+ 1
	●	●	1 x CAN isolated channel (DB9M) with terminations	+ 1
				⬇
WiFi & MODEM 3G/4G	●	●	WiFi module, IEEE 802.11b/g/n, 2,4GHz ▪ Modem module, 2G/3G/3G+ EDGE/HSPA	-
				⬇
WARRANTY EXTENSION	●	●	Warranty extension to 18 month	
	●	●	Warranty extension to 24 months	
	●	●	Warranty extension to 36 months	

NOTES

The power consumption of the configuration takes into consideration the maximum absorbed power of every component and does not include the consumption of the devices connected to the USB ports.

1: Communication ports cannot be installed together

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TECHNICAL SPECIFICATIONS	
Case	Panel mount
Overall dimensions & weight	See details on the related section
Front Panel	Aluminum and tempered glass TrueFlat
Touchscreen	projective capacitive touch-screen
Frontal protection	IP66, Enclosure type 4X (Indoor use only)
Operating System	Supplied without operating system but optionally can be installed:
	Microsoft Windows Embedded Compact 7 Pro license with Datalight Reliance Nitro file system ▪ Microsoft olographic sticker
Software Utility	ASEM System Manager ▪ Only with WEC7 O.S.
Power supply	Input voltage 18÷36V DC ▪ Power supply section integrated on board
optional	MicroUPS: backup function for microinterruption with supercapacitors ▪ Max interruption: 500ms ▪ First load: 30" ▪ Rearm time: 15"
Motherboard	"All-In-One" type ▪ ASEM R231
Processor	ARM Cortex A9 dual core ▪ i.MX6 DualLite ▪ 1 GHz, 400 MHz system memory bus ▪ GPU (Graphic Processor Unit) integrated
RAM memory	1 GB DDR3-800 ▪ Soldered on board
Mass storage	eMMC (Solid State Disk) 4GB PseudoSLC, 8bit, file system organization
Retentive memory optional	512kB MRAM (with MicroUPS)
SD slot	1 x Slot MicroSD integrated on board ▪ external access
Rear access interfaces	2 x Ethernet 10/100/1000 Mbps (RJ45) ▪ 2 x USB 2.0 (Type-A / host)
Rear access serial interfaces	1 x RS-232/422/485 (DB15M) with MPI protocol support up to 187,5Kbit/s
optional	1 x RS-485 isolated (DB9M), without MPI protocol support, or 1 x CAN isolated channel (DB9M)
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 (61010) ▪ ATEX 2014/34/UE Zone 2/22 II 3 G D
Standard warranty	12 months ▪ Warranty management by ASEM headquarters

DIMENSIONS (mm)

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

A · B · C · D · F · H

LCD TFT	| CUT OUT "A"				| CUT OUT "B"					**F** Without MicroUPS / with MicroUPS	
	A	B	C	D	A	B	C	D	H	Without MicroUPS / with MicroUPS	Weight (Kg)
7"W	-	-	-	-	204	147,6	197	140,5	4	40 / 48	1,2
10,1"W	293	201,5	285	193,5	-	-	-	-	5	48 / 56	1,6
12,1"W	331	222,5	313	215	-	-	-	-	5	51 / 59	2,0
15,6"W	433	267	410	255	-	-	-	-	6	49 / 57	3,3

CONNECTORS VIEW

1 x CAN or 1 x RS485 (DB9M) optional

microSD CARD · 1 x RS232/422/485 (DB15M) MPI support · 2 x LAN · POWER PLUG

AUX - 3G/4G · WiFi 2.4GHz Bluetooth · Restore defaults · Reset · PowerOn LED · 2 x USB 2.0