UTICOR Toughpanel

Tough Panel ™ Part Numbers and Specifications

How to select Part Numbers and Order ?

UTXX-XXXX-XX-X-XXXXXX-X
   1 2 3 4 5 6   7

1 Choice of Operating system:

P	Dedicated/Proprietary (Matrix touch cells, Ethernet available via option card or on SE Series)
C	Windows CE (Analog resistive touchscreen, Ethernet and USB standard)
TP	Touch Plus Dedicated/Proprietary (15" Models only) (Analog resistive touchscreen, Ethernet, USB and Micro SD standard)
W	Windows 7 Embedded (10" and 15" Models only) (Analog resistive touchscreen, Ethernet, USB and Micro SD standard)

2 Size of Display:

04	3.5" display
06	6" display
08	8" display
10	10" display
15	15" display (Not available in P (UTP) or C (UTC) models)

3 Type of Display:

WB	White on Blue (6" PV700 model only)
TC	TFT Color

4 Optional Drivers:

(All Models)

0	Standard Toughpanel model

(S and SE Models – Limited model without expansion slots, available with proprietary OS UTP panels only – 6" to 10")

S	Serial only (SE Series without expansion slots, no higher level network cards or expandable memory)
SE	Serial & Ethernet (SE Series without expansion slots, no higher level network cards or expandable memory)

(Non SE models)

C	Mitsubishi CCLink
CN	ControlNet
D	DeviceNet
H	DH+ and Remote I/O
M	Modbus Plus
N	Netview-Control and Data storage - only on P models [UTP]
*P	Profibus
U	Universal Ethernet (not required when selecting C in Field 1) - Only on P models [UTP]

Note: optional network drivers **C**, **CN**, **D**, **H**, **M**, **U** and Netview option **N**, are available only on 6" PV700, 8", 10" and 15" models and not available on SE Series. (Touch Plus dedicated OS and Windows 7 Embedded HMIs support optional driver H (DH+/Remote I/O) only at present, but other drivers coming soon.)

5 Bezel Material:

A	Aluminium,
S	Stainless Steel

6 Special Bezel:

0	Standard Toughpanel Bezel
PV700	PanelView Plus 700 (on 6" display)
PV1000	PanelView 1000 or 1000E (On 10"display)
PV1200	PanelView 1200 (On 10" display)
PV1400	PanelView 1400 (on 15" display)

7 Outdoor Options:

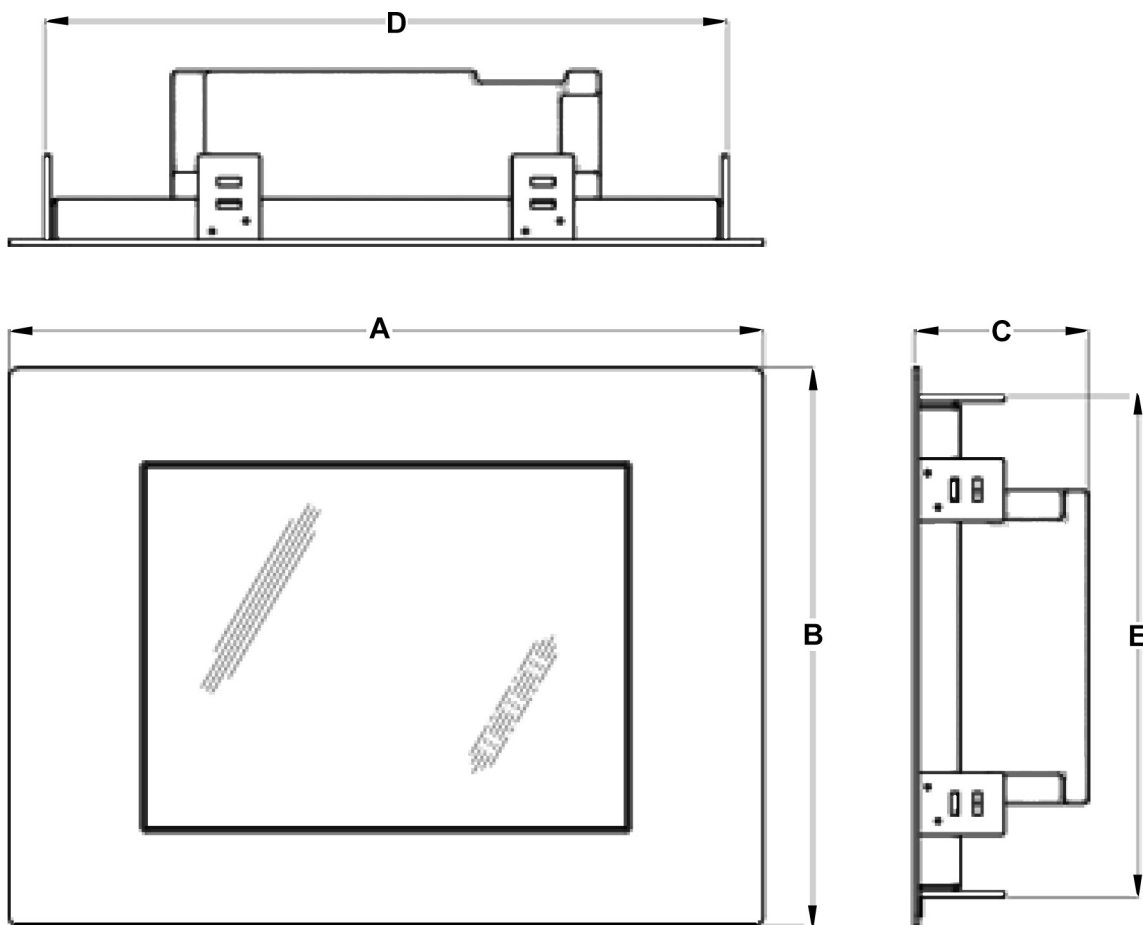|	
SUN	Outdoor, Sunlight Readable Display (6" and 10" only)

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Toughpanel Bezel Dimensions and Panel Cut-Out

Note -
A - Panel Width, **B** - Panel Height, **C** - Product Depth,
D - Panel Cut-out Width, **E** - Panel Cut-out Height

Model Number	Panel Width	Panel Height	Panel Depth	Cut-out Width	Cut-out Height
	152 (5.98")	122 (4.80")	38.87 (1.53")	132 (5.20")	102.4 (4.03")
UTX-06TC-X-X *	170.5 (6.71")	137 (5.39")	61.39 (2.41")	155 (6.10")	123.5 (4.86")
UTX-06TC-X-X-PVP700	246 (9.69")	179 (7.05")	81.66 (3.21")	220 (8.67")	154 (6.08")
UTX-08TC-X-X	274 (10.79")	216 (8.50")	79.6 (3.13")	259 (10.20")	201 (7.91")
UTX-10TC-X-X	317.5 (12.5")	241 (9.48")	79.6 (3.13")	305 (12.00")	224 (8.81")
UTX-10TC-X-X-PV1000	370 (14.57")	282 (11.10")	79.6 (3.13")	338 (13.31")	257 (10.12")
UTX-10TC-X-X-PV1200	351 (13.82")	342 (13.46")	79.6 (3.13")	318 (12.52")	316 (12.44")
UTX-15TC-X-X	416 (16.38")	330 (12.99")	93.63 (3.68")	391 (15.39")	305 (12.01")

* - With only SE Series models

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Uticor Tough panel Selection Guide and Specifications

Uticor Tough panel 3.8, 3.5 and 5.7-inch Model Specifications		
Part Number	**UTP-04TC-X-X** (No option card capability} *Dedicated OS, Ethernet/USB Options*	**UTP-06TC-X-X** (No option card capability) *Dedicated OS, Ethernet/USB Options*
Specification	3.5" TFT Color	5.7" TFT Color
Enclosure	NEMA 4/4X, Class I, Div. II with FDA Compliance, Alumium or Stainless Steel	
Display View Area	2.87" x 2.18" (72.9 x 55.4mm)	4.57" x 3.44" (116.2 x 87.4 mm)
Screen Pixels	320 x 240	
Brightness (Nits)	400	400 (750 for -SUN Models)
Life (Hours)	100,000	
Cell Matrix	8 x 6 - 48 resistive cells	16 x 12 for a total of 192 resistive cells
CPU Type	Motorola Coldfire 32-bit, 40 MHz	
Power Supply Required	24VDC (20-30VDC operating range), 1.5A switching	
Power @ 24 VDC (watts)	15 Watts	16 Watts
Approvals	UL, CUL, CE	
Operating Temp.	-20° to 60° C (-4 to 140° F)	
Storage Temp.	-20° to 60° C (-4 to 140° F)	
Humidity	10-95% RH, relative humidity	
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test	
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)	
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)	
Vibration	5 to 55Hz 3G for 2 hours in the X, Y and Z axes	
Shock	20G for under 12ms in the X, Y and Z axes	
User Memory - System RAM	512 KB	
User Memory - Exp. RAM	None	
User Memory - Flash	1 MB	
Num. of Screens	Up to 999 limited by memory	
Real Time Clock	None	
Screen Saver	Yes, Backlight off	
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)	
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female)	
	Optional Ethernet for PLC or Programming	
Weight	1.8 lbs for Aluminum, 2.6 for Stainless Steel	2.3 lbs for Aluminum, 3.3 lbs for Stainless Steel

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Uticor Tough panel Selection Guide and Specifications

Uticor Tough panel 5.7-inch Model Specifications		
Part Number	UTP-06WB-X-X - PV700 (Dedicated OS or CE OS, option cards, universal ethernet option)	UTX-06TC-X-X-PVP700 (Dedicated OS or CE OS, option cards, universal ethernet option)
Specification	5.7" White on Blue	5.7" TFT Color
Enclosure	NEMA 4/4X, Class I, Div. II with FDA Compliance, Aluminum or Stainless Steel	
Display View Area	4.57" x 3.44" (116.2 x 87.4 mm)	
Screen Pixels	320 x 240	
Brightness (Nits)	140	400 (750 for -SUN Models)
Life (Hours)	50,000	100,000
Cell Matrix	8 x 6 - 48 resistive cells	16 x 12 for a total of 192 resistive cells for Dedicated OS, Analog Resistive for CE OS
CPU Type	Motorola Coldfire 32-bit, 40 MHz for Dedicated OS, Alchemy 333 MHz	
Power Supply Required	24VDC (20-30VDC operating range), 1.5A switching	
Power @ 24 VDC (watts)	12 Watts	16 Watts
Approvals	UL, CUL, CE)	
Operating Temp.	0° to 45° C (32 to 113° F)	-20° to 60° C (-4 to 140° F)
Storage Temp.	-20° to 60° C (-4 to 140° F)	
Humidity	10-95% RH, relative humidity	
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test	
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)	
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)	
Vibration	5 to 55Hz 3G for 2 hours in the X, Y and Z axes	
Shock	20G for under 12ms in the X, Y and Z axes	
User Memory - System RAM	512 KB for Dedicated OS and 64MB for CE OS	
User Memory - Exp. RAM	512 KB and 1 MB for Dedicated OS and No expansion on CE OS	
User Memory - Flash	For Dedicated OS: 1MB or 2MB Flash card for user program back-up For CE OS: 2MB internal for HMI application with slot for external compact flash	
Num. of Screens	Up to 999 limited by memory	
Real Time Clock	Built into panel (PLC clock is still accessible if available)	
Screen Saver	Yes, Backlight off	
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)	
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female) for Dedicated OS & additional USB and Ethernet for CE OS	
	For Universal Ethernet models wtih Dedicated OS: 15-pin D-sub is replaced by Universal Ethernet port	
Weight	2.8 lbs for Aluminum, 3.8 lbs for Stainless Steel	

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Uticor Tough panel Selection Guide and Specifications

Uticor Tough panel 8 and 10-inch Model Specifications		
Part Number	UTX-08TC-X-X *(Dedicated OS or CE OS, option cards, universal ethernet option)*	UTX-10TC-X-X *(Dedicated OS or CE OS, option cards, universal ethernet option)*
Specification	8.2" TFT Color	10.4" TFT Color
Enclosure	NEMA 4/4X, Class I, Div. II with FDA Compliance, Aluminum or Stainless Steel	
Display View Area	6.73" x 5.10" (170.9 x 129.6mm)	8.31" x 6.22" (211.07 x 158 mm)
Screen Pixels	640 x 480	
Brightness (Nits)	400	400
Life (Hours)	100,000	100,000
Cell Matrix	16 x 12 for a total of 192 resistive cells for Dedicated OS, Analog Resistive or CE OS	
CPU Type	Motorola Coldfire 32-bit, 40 MHz for Dedicated OS, Alchemy 333 MHz	
Power Supply Required	24VDC (20-30VDC operating range), 1.5A switching	
Power @ 24 VDC (watts)	**18 Watts**	
Approvals	UL, CUL, CE	
Operating Temp.	-20° to 60° C (-4 to 140° F)	
Storage Temp.	-20° to 60° C (-4 to 140° F)	
Humidity	10-95% RH, relative humidity	
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test	
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)	
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)	
Vibration	5 to 55Hz 3G for 2 hours in the X, Y and Z axes	
Shock	20G for under 12ms in the X, Y and Z axes	
User Memory - System RAM	512KB and 1 MB for Dedicated OS and 64MB for CE OS	
User Memory - Exp. RAM	512 KB and 1 MB for Dedicated OS and No expansion on CE OS	
User Memory - Flash	For Dedicated OS: 1MB or 2MB Flash card for user program back-up For CE OS: 2MB internal for HMI application with slot for external compact flash	
Num. of Screens	Up to 999 limited by memory	
Real Time Clock	Built into panel (PLC clock is still accessible if available)	
Screen Saver	Yes, Backlight off	
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)	
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female) for Dedicated OS & additional USB and Ethernet for CE OS	
	For Universal Ethernet models wtih Dedicated OS: 15-pin D-sub is replaced by Universal Ethernet port	
Weight	3.8 lbs for Aluminum, 4.8 lbs for Stainless Steel	4.8 lbs for Aluminum, 6.8 lbs for Stainless Steel

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Uticor Tough panel Selection Guide and Specifications

Uticor Tough panel 10 and 15-inch Model Specifications			
Part Number	UTW-10TC-X-X-XXXXXX Windows 7 Embedded OS	UTW-15TC-X-X-XXXXXX Windows 7 Embedded OS	UTX-15TC-X-X-XXXXXX (Dedicated OS)
Specification	10" TFT Color	15" TFT Color	15" TFT Color
Enclosure	NEMA 4/4X, Class I, Div. II with FDA Compliance, Aluminum or Stainless Steel		
Display View Area	8.31" x 6.22" (211.07 x 158mm)	12.02"x9.01" (305.28x228.96 mm)	12.02"x9.01" (305.28x228.96 mm)
Screen Pixels	800x600	1024x768	
Brightness (Nits)	400 (750 for -SUN Models)	400	400
Life (Hours)	100,000	100,000	100,000
Cell Matrix	Analog Resistive 5-Wire		
CPU Type	Intel Atom E640 1 GHz w/1GB DDR2 RAM		
Power Supply Required	24VDC (20-30VDC operating range), 1.5A switching		
Power @ 24 VDC (watts)	15 Watts	20 Watts	20 Watts
Approvals	UL, CUL, CE (Pending)		
Operating Temp.	-20° to 60° C (-4 to 140° F)		
Storage Temp.	-20° to 60° C (-4 to 140° F)		
Humidity	10-95% RH, relative humidity		
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test		
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)		
Insulation Res.	Over 20 MΩ, between power supply input and terminal and protective ground (FG)		
Vibration	5 to 55Hz 3G for 2 hours in the X, Y and Z axes		
Shock	20G for under 12ms in the X, Y and Z axes		
User Memory	4GB SSD		
User Memory - RAM	1GB DDR2 RAM		
User Memory - Flash	4GB SSD, Expandable (8GB, 16GB, 32GB		
Num. of Screens	Up to 999 limited by memory		
Real Time Clock	Built into panel (PLC clock is still accessible if available)		
Screen Saver	Yes, Backlight off		
Serial Communications	PLC port: RS-232/RS-422/RS-485 15-pin D-sub (female)		
	Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female) for Dedicated OS & additional USB and Ethernet		
Weight	6.8 lbs for Aluminum, 9 lbs for Stainless Steel	6.8 lbs for Aluminum, 9 lbs for Stainless Steel	8.9 lbs for Aluminum, 11.9 lbs for Stainless Steel

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