# Tough Panel ™

# Uticor Tough panel Selection Guide and Specifications

## Uticor Tough panel 5.7-inch Model Specifications

| | UTP-04TC-X-XX (Dedicated OS with Optional Ethernet Port, No Optional Card Capability) | UTP-06TC-X-X (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) |
|---|---|---|---|
| Part Number | | | |
| |  |  |  |
| Specification | 3.5" TFT Color | 5.7" White on Blue | 5.7" TFT Color |
| Enclosure | NEMA 4/4X, IP 66, Class I, Div. II with FDA Compliance, Aluminum 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 | | |
| Backlight | White LED | CCFL | White LED |
| Brightness (Nits) | 500 | 140 | 500 |
| Life (Hours) | 100,000hrs@60°C | 40,000 hrs@25°C | 100,000 hrs@ 60°C |
| Cell Matrix | 8 x 6 - 48 resistive cells | 8 x 6 - 48 resistive cells | 8 x 6 - 48 resistive cells for SE Series 16 x 12 for a total of 192 resistive cells for Standard 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) | 15 Watts | 16 Watts | 16 Watts |
| Approvals | UL, CUL, CE | | |
| Operating Temp. | -20° to 60° C (-4 to 140° F) | 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) | -20° to 60° C (-4 to 140° F) | -20° to 65° C (-4 to 149° 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 | 512 KB for Dedicated OS and 64MB for CE OS | |
| User Memory - Exp. RAM | None | 512 KB and 1 MB for Dedicated OS and No expansion on CE OS or SE Series | |
| User Memory - Flash | 1 MB | For Dedicated OS: 1MB or 2MB Flash card for user program back-up, No flash option for SE Series 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 | None | Built into panel (PLC clock is still accessible if available), No Real Time Clock for SE Series | |
| Screen Saver | Yes, Backlight off | | |
| Serial & Ethernet Communications | PLC port: RS-232/RS-422/RS-485  15-pin D-sub (female) | PLC port: RS-232/RS-422/RS-485  15-pin D-sub (female), Ethernet port for CE OS, SE Series and Universal Ethernet Models | |
| | Download/program port: RS-232/RS-422/RS-485 9-pin D-sub (female), Ethernet for SE Model | Download/program port: RS-232/RS-422/RS-485  9-pin D-sub (female) for Dedicated OS & additional USB and Ethernet for CE OS, Ethernet Programing for "SE" Models | |
| Hardware, Network Communications | Not available on SE Series Model, All option cards available on Dedicated OS, All Network card except NetView card available on CE OS | | |
| Weight | 1.8 lbs for Aluminum, 2.6 for Stainless Steel | 2.8 lbs for Aluminum, 3.8 lbs for Stainless Steel | |

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## Uticor Tough panel 8 and 10-inch Model Specifications

| | 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) | UTX-15TC-X-X (Dedicated OS or CE OS, option cards, universal ethernet option) |
|---|---|---|---|
| Part Number | | | |
| | | | |
| Specification | 8.2" TFT Color | 10.4" TFT Color | 15" TFT Color |
| Enclosure | NEMA 4/4X, IP 66, 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) | 12.02" x 9.01" (305.28 x 228.96 mm) |
| Screen Pixels | 640 x 480 | | |
| Backlight | White LED | | |
| Brightness (Nits) | 500 | | |
| Life (Hours) | 100,000hrs @60°C | | |
| 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 | | 25 Watts |
| Approvals | UL, CUL, CE | | |
| Operating Temp. | -20° to 60° C (-4 to 140° F) | | |
| Storage Temp. | -20° to 65° C (-4 to 149° 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 | 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 or SE SEries | | |
| User Memory - Flash | For Dedicated OS: 1MB or 2MB Flash card for user program back-up. No flash option for SE Series. 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), No Real Time Clock for SE Series | | |
| Screen Saver | Yes, Backlight off | | |
| Serial & Ethernet Communications | PLC port: RS-232/RS-422/RS-485  15-pin D-sub (female), Ethernet port for CE OS, SE Series and Universal Ethernet Models | | |
| | Download/program port: RS-232/RS-422/RS-485  9-pin D-sub (female) for Dedicated OS & additional USB and Ethernet for CE OS, Ethernet Programing for "SE" Models | | |
| Hardware, Network Communications | Not available on SE Series Model, All option cards available on Dedicated OS, All Network card except NetView card available on CE OS | | |
| Weight | 3.8 lbs for Aluminum, 4.8 lbs for Stainless Steel | 4.8 lbs for Aluminum, 6.8 lbs for Stainless Steel | 8.9 lbs for Aluminum, 11.9 lbs for Stainless Steel |