

QUICK VIEW PRODUCT SPECIFICATION Product Code: XTD043RB-K320C Integrating User Interface and Process Control

Product Features

- 4.3inch 24 Bit Colour TFT with Resistive Touch and Front Mounting Bezel
- Supply Input Voltage 9V-36VDC
- Outputs 5.0V / 3.3V for peripheral supply
- 1x 4G-32G SDHC slot for application program and data logging memory
- 1x USB Host / Device Interface 2.0 for PC or Memory Stick
- 2x RS232 with RXD/TXD or single with CTS/RTS
- o 1x RS485 with Independent Transmit / Receive for Full Duplex / Daisy Chain
- 1x SPI 3.3/5V Isolated Interface or Isolated 1x Digital In / 3x Digital Out
- o 1x TTL Async Serial 3.3/5V Isolated Interface or 1x Digital In / 1x Digital Out
- 1x I2C 3.3/5V Isolated Interface
- Battery-backup Real Time Clock (RTC)
- Supports 3.5mm / 5.0mm Screw Terminal Adaptors via 14-way IDC link
- Supports D-Type back panel connectors for serial interfacing via 10way IDC link
- Expansion via I2C to Thermocouple / PT100 / Analogue Inputs and Digital I/O

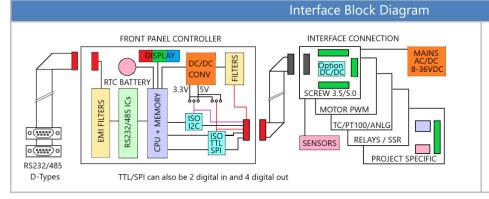


The resistive touch panel provides a cost effective one touch solution capable of accepting stylus, bare or gloved finger. The firmware can adjust sample rate, de-bounce, auto-repeat and acceptance area depending on required action. The bezel frame is symmetrical allowing 90 and 180 degree rotation with control by single software orientation command.

Product Parameters	Unit	Min	Max	Notes
Supply Voltage VA	VDC	9	30	Power consumption ~2.5W with LED backlight 100%
Output Voltage 3V3	VDC	3.2	3.4	Maximum current 50mA
Output Voltage 5V0	VDC	4.75	5.25	Maximum current 100mA
Real Time Clock Battery	VDC	3	3	CR1216 / CR1225 battery holder
Operating Temperature	℃	-20	70	
Storage Temperature	℃	-30	70	
Relative Humidity	%	20	85	25°C operation, non-condensing
Display Brightness	cd/m2	280	350	

Interface Parameters	Unit	Input		Output		Notes
		Min	Max	Min	Max	
USB Host / Device Supply	VDC	4.75	5.25	4.75	5.25	Maximum current 150mA source
Isolated Digital Interfaces Low Level	VDC		0.3xVDD		0.3xVDD	3.3/5V jumper selectable. Max 10mA sink
Isolated Digital Interfaces High Level	VDC	0.6xVDD		0.6xVDD		3.3/5V jumper selectable. Max 10mA source
Isolation Voltage	VDC	300V				With external isolated supplies
RS232 Interface	VDC	-15	+15	-3	+7	Internal Isolated / External Supply

Since all outputs can sink and source, do not parallel connect.

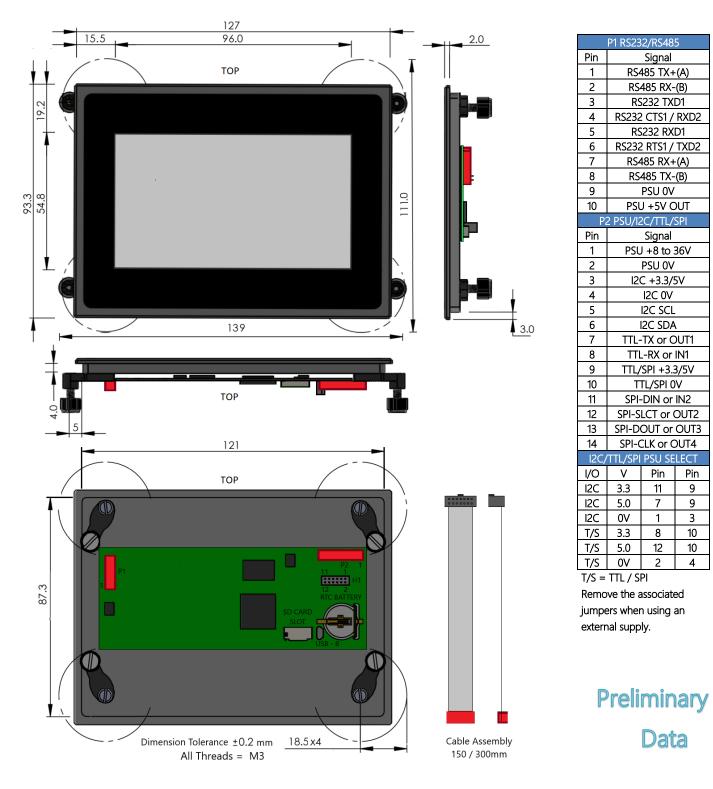


XTD Standard Front Panel Controller Customer Oriented I/O Expansion Modules Onboard Port Isolation / Voltage Selection

The interface connection module can be wired into the heart of your machine then the XTD controller added once the front panel is fitted with minimal stress to wiring.



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The I2C and TTL/SPI power connections can be connected to external isolated supplies to achieve isolated data input/output or connected via the links to the internal 3.3/5V supplies derived from the 8-36V supply, where data input/output is not isolated. The connectors used are TE low profile MicroMatch© 8-338069-0 for P1 (10 way) and 8-338069-4 for P2 (14 way). The PSU selection header is supplied with 4 off plugin 2mm jumper links defaulting to 3.3 VDC internal supply. The swing out lugs can be removed and alternative fixing method used to retain the assembly using the M3 screw threads. The thumbscrew lugs swing out once inserted for securing into a 1mm to 4mm thick front panel.

E&OE.