

VFX 2000 Display Controller



General Description

The VFX 2000 is a powerful electronic solution for visualization (from 6.5" up to 10.4" color displays) in off-highway industries that rely on their equipment to function under the most difficult conditions.

It is part of a complete and compatible product family and is protected by a robust housing suited to the off-highway industry.

Features

- MPC 823 E, 66 MHz, 64 MB Flash, 32 MB RAM, RTC
- 2 x serial EEPROM 32 kB over I²C (+ 1 x 32 kB EEPROM or 8 kB FRAM opt.)
- 1 x TTP bus with redundant channels, RS-485 physical layer (up to 5 Mbit/s)
- TTP communication controller AS 8202 NF
- 1 x RS-232 Modem (incl. handshake signal lines)
- 2 x RS-485 or 1 x RS-485 + 1 x RS-232

- 1 x LIN (up to 19 200 bit/s)
- 1 x CANHS + 1 x CANHS or opt. LS (fault-tolerant)
- 1 x Ethernet following IEEE 802.3 (10 Mbit/s)
- 1 x 1-Wire (i-Button) Interface
- 26 x digital IN (active, low or high), some with possibility of resolver input or edge-detection capability
- 24 x digital OUT 500 mA, short to ground protection and open load detection
- LVDS and PAL/NTSC interface with VFX LCDs:
- 6.5" TFT 400 x 240 (- 40 °C to + 80 °C)
- 10.4" TFT 640 x 480 (- 20 °C to + 70 °C)
- External and on-board temperature sensor
- Software: CONTROL F(x)

SPECIFICATIONS

Parameter	
Dimensions	234 x 181 x 48 mm
Weight	790* g
Operating Temperature	- 40 to + 70* °C
Operating Altitude	0 to 4 000 M
Supply Voltage	9 to 36 V
Peak Voltage	52 V _{max}
Current Consumption	1* at 9 V A _{max}
Environmental Specifications	
Protection Degree	DIN 40050 IP65
Vibration, Shock, Bump	IEC 68-2-64, -27, -29
EMC	ISO/DIS 13 766
ESD	IEC 61 000
Temperature Environment	IEC 68-2-1, -2, -3, -14, -30
Load Dump	ISO 7637
Conducted Emissions	CISPR 25

*All parameters without display unit



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