WinCE HMI 8.4″

Can Bus HMIMobile Computer 8.4in Touch Screen Display

The **WinCE HMI 8.4″** is a Mobile Data Terminal, Windows® CE™ 6.0 based with an 8.4″ bright TFT LCD screen and featured with a touch screen.

This Human to Machine Interface is an embedded open architecture platform designed for in-vehicle use. The PR3843 not only interfaces with J1939 and many standard communication systems but it also provides a platform for the new in-vehicle demand.

The entire unit is designed for a real IP67 ingress protection, which allows outdoor use.

Features

- Bright TFT 8.4 inches at a resolution of 640x480
- Design in accordance with SAE-J1455, J1113
- Operating supply voltage range: 10 to 32 V
- Reverse polarity protection
- Operating temperature range: -20 to +70°C (-40°C available)
- 1 CAN 2.0b port SAE-J1939
- 1 CAN 2.0b port
- 10 Bits analog to digital converter
- 1 voltage reference (5V)
- 4 Analog Video Inputs NTSC with Camera power (Video 3 & 4 Optional)
- 1 Ethernet 10/100Base-T (Optional)
- Piezo (Beeper)
- 2 Microphone inputs and 1 Stereo output (Optional)
- Touch screen and 6 back lighted keys
- 1 RS-232 serial port
- 2 USB 2.0 port (Second port Optional)
- 1 LIN bus

- **10 Inputs:**
  - (**2**) *(DA10F*) software configurable: Digital: High side or low side, Analog: 0-10V, Frequency: 10Hz-10kHz
  - (**6**) (*DA10*) software configurable: Digital: High side or low side, Analog: 0-10V
  - (**2**) (*DA5CZ*) software configurable: Digital: High side, Analog: 0-5.5V, Current 4-20 mA, Impedance (0-500Ω)
- **8 Outputs:**
  - (8) (H.5F) software configurable: Source (0.5A): Digital, PWM (1%), diagnostic

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Built for : Microsoft® Windows® CE

Functional description

WinCE HMI 8.4″ runs on Windows CE™ platforms, a familiar operating system that enables us to integrate Windows CE™ compatible application on the system. The system is composed of a 32 bits ARM processor running at 600 MHz, with 512 MB RAM and 1 GB for Data memory.

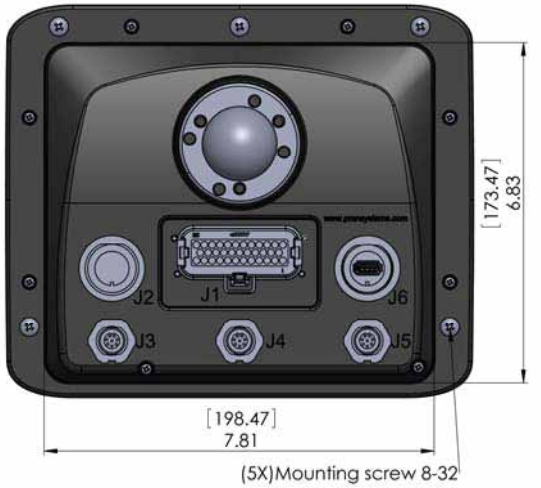
This product is also featured with a micro controller platform which manages I/O and CAN communication signals and in the meantime also reinforces the stability of the whole unit.

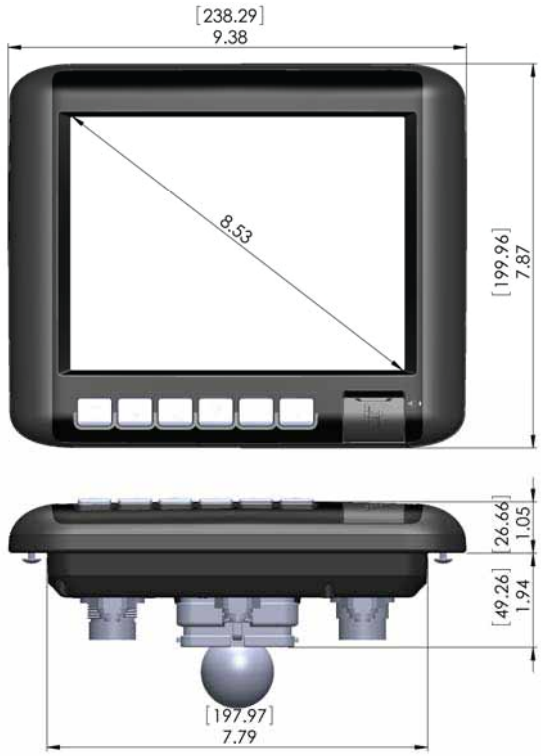
This system is equipped with up to 4 video inputs for NTSC cameras that can be used as backup camera or simply for monitoring. A Software developer package can be provided for customers who prefer to build their own application. Custom software with graphic design can be provided to integrate Data terminal with OEM body functions.

Optional - Up to 4x NTSC Video inputs

Perfect for backup camera's or video monitoring purposes. A second USB port, Ethernet port and stereo line out are also optional.

Dimensions





Optional RAM ball

Pin Assignment

J1	
Pin name(Type)	**#**
IN1 (*DA10*)	1
IN2 (*DA10*)	2
IN3 (*DA10*)	3
IN4 (*DA10*)	4
IN5 (*DA10*)	5
IN6 (*DA10F*)	6
IN7 (*DA10F*)	7
IN8 (*DA10*)	8
IN9 (*DA5CZ*)	9
IN10 (*DA5CZ*)	10
RS232-GND (*Com*)	11
LIN (*Com*)	12
RS232-RX (*Com*)	13
RS232-TX (*Com*)	14
RS232-CTS (*Com*)	15
RS232-RTS (*Com*)	16
CANP-H (*CAN*)	17
CANP-L (*CAN*)	18
CANP-S (*CAN*)	19
CAN2-S (*acc*)	20
CAN2-H (*acc*)	21
CAN2-L (*acc*)	22
TRIG	23
OUT8 (*H.5F*)	24
OUT7 (*H.5F*)	25
OUT6 (*H.5F*)	26
OUT5 (*H.5F*)	27
OUT4 (*H.5F*)	28
OUT3 (*H.5F*)	29
OUT2 (*H.5F*)	30
OUT1 (*H.5F*)	31
VBAT (*Power+*)	32
GND (*Power-*)	33
VREF (*Voltage Ref.*)	34
GND-REF (*Gnd Ref.*)	35

J3	
Pin name(Type)	**#**
A-GND1 (*Audio Gnd*)	1
MIC-R (*Right Channel*)	2
n/c	3
n/c	4
VIDEO-IN1 (*NTSC*)	5
n/c	6
GND-CAM1 (*Cam Pwr-*)	7
V-CAM1 (*Cam Pwr+*)	8

J4	
Pin name(Type)	**#**
A-GND-L (*Audio Gnd*)	1
LINEOUT-L (*Audio*)	2
A-GND-R (*Audio Gnd*)	3
LINEOUT-R (*Audio*)	4
VIDEO-IN3 (*NTSC*)	5
VIDEO-IN4 (*NTSC*)	6
GND-CAM (*Cam Pwr-*)	7
V-CAM (*Cam Pwr+*)	8

J5	
Pin name(Type)	**#**
A-GND2 (*Audio Gnd*)	1
MIC-L (*Left Channel*)	2
n/c	3
n/c	4
VIDEO-IN2 (*NTSC*)	5
n/c	6
GND-CAM2 (*Cam Pwr-*)	7
V-CAM2 (*Cam Pwr+*)	8

Other Connections	
RJ-45 10/100 BASE-T Ethernet	J2
USB 2.0 Host connection	J6
USB 2.0 Host connection (Front)	J7