TECHNICAL SPECIFICATION FOR VCS231 UNIT
(Multi-Function Display)



1. 1280 X 800pixels
2. 10” Inch Display (Diagonal)
3. Display Type: Graphics
4. White LED Backlight
5. Built in Negative Voltage.
6. RoHS Complaint
7. STN (Color) Display
8. Transflective, 6:00 Optimal View,
9. Built-in S1xxxxxx Controller Series
10. 8080,6800 Read write Compatibility
11. +12V power supply

12. LCD connector: 1.0mm pitch 20-pos FFC connector
13. Backlight connector: JST p/n XHP-3
14. Mates with JST p/n: B 3B-XH-A
15. Operating Temperature Range -20^{o}C to +70 ^{o}C
16. Storage Temperature Range -30 ^{o}C to +80 ^{o}C

Micro-Processor: -

1) 32 Bit ARM Cortex M3 Four Crystal modes, Including High-Precision PLL
2) Two External Clock modes, up to 48 MHz
3) Provides 8 user-selectable frequencies from 31 kHz to 8 MHz
4) Provides a complete range of clock speeds, from 31 kHz to 32 MHz when used with PLL
5) User-tunable to compensate for frequency drift
6) Low-Power, High-Speed CMOS Flash Technology
7) Run: CPU on, peripherals on
8) Idle: CPU off, peripherals on
9) Sleep: CPU off, peripherals off
10) Priority Levels for Interrupts
11) Self-Programmable under Software Control
12) 8 x 8 Single-Cycle Hardware Multiplier
13) Two Enhanced USART modules
14) Supports RS-422, RS-485, RS-232 and LIN/J2602
15) Auto-wake-up on Start bit
16) Auto-Baud Detect
17. Operating Temperature Range -20^{o}C to +70 ^{0}C
18. Storage Temperature Range -30^{o}C to +80 ^{0}C

Power Supply: -

1. DC.to DC Converter.
2. Input Voltage: 28Volts D.C.
3. Output Voltage: 5 Volts D.C.
4. Output Voltage: 3.3 Volts D.C.
5. Output Voltage: 1.5 Volts D.C.
6. Output Voltage: 12 Volts D.C.

Communication: -

1. RS 422 with two Channel and auto detection (Hardware)
2. Baud Rate: 19.2 Khz
3. Start Bit: 1
4. Stop Bit: 2
5. Parity Bit: Nil
6. Source ID: -NA-
7. Destination ID: VCS 231
8. Message Rate: 50 m Sec Typical
9. Protocol: - As Per B.E.L Protocol

Peripheral:-

1. Contrast Knob
2. Red LED (Torpedo Warning)
3. Green LED(Target in Contact)
4. Reset Switch
5. Buzzer 12Volts