



Universal Networked Display Driver

System Overview

GCT-Networked Display Driver is a single compact, light weight and low power universal card providing an universal driver solution for all kinds of single colour, dual color and RGB LED displays. GCT-Networked Display Driver feature a dual-bank configuration of 512KB Flash memory and 96 KB RAM. It is also equipped with battery backed Real Time Clock (RTC) and GSM/GPRS Modem.

It is capable of handling and rendering Unicode Multilingual data streams transferred from a remote server or computer, through SMS, GSM/GPRS or through Wi-Fi / LAN. This card has multiple General Purpose Input Output (GPIO) both Analog and Digital (PWM capable) for local use at the Display site. These can be used for sensing local parameters for remote monitoring applications.

GCT-Networked Display Driver is designed to support a variety of configurations of LED Matrix Displays available in the market. It is equipped with 4 (four) HUB12 and 1 (one) HUB75 ports. Displays with HUB08 and custom ports can also be connected through optional Port Adapter sold separately.

The system provides next generation interconnection capabilities while dramatically allowing for all kinds of communication interfaces and protocols.

GCT-Networked Display Driver has a web based GUI for necessary operations, remote monitoring, remote control and messaging applications. APIs are also available for integration with C&C systems.

Multilingual

Remote Control

Remote monitoring

Color coded text

Custom messages.

Hardware Serial # as UID

Brightness Control

External Antenna

Inhibit Stale Messages

Multiple connectivity Options

Remote I/O Ports

Single Colour or Multi Colour



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Salient Features:

1. Capable of displaying both Single, Dual and True Color RCB Displays.
2. Supports almost all standard single / dual and RGB displays available in the market.
3. Can be configured to support non-standard display matrices.
4. Capable of handling up to 90 single color (32x16) or 45 dual color (32x16) Panels.
5. In-built GSM/GPRS Modem.
6. Font Library for all Indian regional languages.
7. Supports Unicode / UTF-8 text.
8. Supports for Temperature, Humidity, Atmospheric Pressure, Altitude Sensors.
9. On-board Real Time Clock with Battery backup.
10. On-board Audio In / Out with GSM call support.
11. In-built Bluetooth 3.1 Interface.
12. Compact Quarter Euro Size PCB: 160 mm x 60 mm
13. Single Supply Operation: DC 5V 2.5A (Max)
14. Operating Temperature: -20°C to 85°C
15. Operating Humidity: 0 – 98% (Non-condensing)
16. On-board Flash Memory to store operational data.
17. Software / Firmware can be updated on-site or Over the Air (OTA)
18. Supports UDP, TCP, SSL, HTTP, HTTPS, FTP, SFTP, SMTP, POP3 protocols.
19. Serial Ports UART : 3 (three)
20. USB OTG and Device Ports
21. Three I2C / TWI Ports
22. Two SPI Ports
23. Digital I/O Pins: 54 (of which 12 provide PWM output)
24. Analog Input Pins: 12
25. Analog Output Pins: 2 (DAC)
26. Powerful ARM Cortex @ 84 MHz
27. Flash Memory: 512 KB all available for the user application
28. SRAM: 96 KB (two banks: 64KB and 32KB)
29. 12 User programmable status LEDs.
30. Two dedicated CAN Bus Ports for Industrial / Automotive Applications
31. Interfaces for future expansion: I2C, SPI, UART, CAN
32. Can be accessed remotely over the Internet / Cloud.



7, Prafulla Sarkar Street, 3rd Floor, Room No. 6 & 7, Kolkata -700072
Phone/Fax : 033 2236 0004 ; Mob : 9007126206 / 9331272031
Email: sales.greenconnect@gmail.com; sales@gctechnologies.in
Web : www.gctechnologies.in