FlinkSign

Connected Programmable RGB LED Matrix Board.

FlinkSign



Flink Sign is a

- Connected,
- Programmable
- State-of-the-art LED matrix board that cater to a diverse range of applications, from
- Information displays to
- Industrial automation.

Main Features

- Connects your local WiFi.
- Supports Window Regions and Animation Effects
- Supports Indic Language Bitmaps.
- Supports SD Card.
- Provides Local Web Services control the content.
- Can Poll your HTTP Webserver Server for content.

Features

Display Support

- RGB Led Matrix HUB75
- RED LED Matrix HUB12
- P3 P10
- 128x64 Pixel Resolution

Connection

- WiFi
- Ethernet LAN
- RS485
- RS232

Features - Protocols

- Web Services.
- RS232/RS485 ASCII Serial Protocol.
- Modbus Slave (RS-232/485/422).
- Modbus Master (RS-232/485/422).

Programming Languages

- Any Language that supports http Client
- Simple ASCII Packet Format
- Same Packet structure for Web Services and Serial Port control
- Support for NodeRed with custom FlinkSign Nodes for easy integration.

Functions

- Sending formatted messages to multiple window regions.
 - Font,Effect,Speed,Stay,Alignment,Color
- Data can be sent over http as web service calls for updating content.
- Data packets can be also be sent over serial.
- Realtime message updates can be polled from a webserver.

Other Functions

- HH:MM / HH:MM:SS 24/12 , Custom Formatted Clock
- Multiple World Clock configurable based on Time Offsets
- Clock can be Updated from NTP Server (WiFi/Ethernet Network Needed).
- Animated GIF from SD Card Playback for Images and Indian Language Bitmaps.

Software Support

- Sample source code to control all the functions.
- PC applications can be used load data and Log values
- Real time control over Web services.
- GITHUB Source repo for all samples. Read Google Sheets, Stock, Scores etc.
- PC Simulator App allows custom development without the need for actual display.

Use Cases - Commercial/ Consumer

- Outlook / Teams / Google Calendar events
- Google Sheets Integration (Ex: For Commodity price display).
- Stock Prices
- World Clock with Weather
- Bus / Train Timing
- Cricket Scores
- News
- Reminders/Alerts

Other Applications

Quiz Timer
Quiz Score Keeper
Sports Scoreboard
SMS Message Receiver
WhatsApp Message Receiver

Use Cases - Industrial (Needs Additional FLink DAM IO Module)

- Modbus LED Display
- Andon LED Display
- Count UP / Down Timers
- Production Boards
- Pulse counter
- Temperature Humidity displays.
- General Protocol Display.
- 4-20ma Analog Display
- GPIO Based Messages

Hardware Functions

Needs Additional Flink DAM 10 Module

Function - Pulse Counter, Production Board

- Upto 4 Opto-Isolated Inputs
- Can be used as Multi Pulse Counter
- One Window can be set as Pulse counter (Actual), One window as Remote Entry Window (Target).
- Other Windows can be Calculation Windows for Gap and Efficiency.

Features - GPIO / Peripherals

- 4 Opto-Isolated Inputs (Trigger, Counter, Latch)
- 1Relay output
- Infrared Remote
- Temp / Humidity Sensor
- High Accuracy RTC
- Clock can be updated from GPS Master over RS484/RS232.

GPIO Message Use Cases: Reason Boards. EB/DG Boards. Andon Display boards.

- Board has 4 Opto-Isolated Inputs
- Each GPIO can trigger a Message (Max 4)- For Line Down Reason boards.
- GPIOs can be combined in a binary pattern and generate up to 15 messages based in the GPIO state.
- GPIO High/Low Messages.

Function - Temperature / Humidity

- Board can support Temperature.
- Board can support Humidity.
- Fine Tuning supported using remote .
- Can use internal sensor or read from Hi-Accuracy External Modbus Sensor.
- Can read from external Modbus RTD sensors.

Function - Count UP/Down Timer

- HH:MM, MM:SS and HH:MM:SS formats
- Count Up and Count Down (Other Window can show last CountUp.).
- Pulse Triggering and Latch Triggering.
- Buzzer at the End. Buzzer during countdown at predefined times.
- Can connect to external Modbus Millisecond Timers.

Function - Modbus

- Master / Slave
- Set Number of registers to read
- short (16bit), long (32bit), float, doubles supported.
- Display formats can be set independently.
- Message for Register value mapping 1-Message1 2-Message2....

Thanks!

Contact us:

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