



GREENWAVE (GPS LINKING)

PRODUCT OVERVIEW

Triacs Technology Sdn. Bhd. implements greenwave linking using GPS Linking for VA operations, coordinated (linked) mode and master (linked) mode. In coordinated (linked) mode, each controller can be assigned as master/slave

The GPS Linking sends and receive signals to change the demand or cycle time using the ISM band at frequency of 2.4 GHz & GPS Synchronize

This GPS linking development was initiated because of the need to synchronize the flow of the vehicles travelling from one junction to another in order to minimise travel delays caused by frequent stopping and waiting

The system may be attached to the controller panel or may be installed on a high location if obstruction exists

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TECHNICAL SPECIFICATION

- ✿ **Intel8051-based micro-controller system (89C2051)**
 - Main Unit (different set of program will determine the function of the module).
- ✿ **4 1/10 CPU compatible logic unit**
 - 4 Inputs: coupling through opto-isolator (active high trigger) - P1.3
 - Outputs: open contact relay (Operating on 24V)
 - P1.4 to P1.4 to P1.7
- ✿ **Range**
 - Up to 900meters
- ✿ **RF ID**
 - Every RF Module has its own ID (myID) in order to transmit data to a particular RF Module, the targeted RD ID must be specified (tgt ID)

- ✿ **RF Transceiver Set (by Max Stream)**
 - Operates at 2.4GHz, license-free ISM band, 19200 bps data rate, line of sight
 - Come with decoding /encoding circuitry, 110dBm receiver sensitivity, Low power: 150mA transmit / 50mA receive, power down current <26uA
 - Each RF transceiver unit has its own ID (4-bit) by setting the receiver's address (through software)
- ✿ **Example**
 - Point to point communication for Greenwave Linking of Traffic Controllers
- ✿ **Module Board**
 - 16cm x 10cm x 10cm PCB