SIMREX Corporation GLB Radio Data Controller



For almost 2 decades, SIMREX Corporation's wireless products have been providing wireless networking solutions with applications in SCADA, telemetry, telecommunications, mobile data and online transaction markets. SIMREX Corporation provides licensed and unlicensed solutions, installed worldwide.

Product Overview

SIMREX Corporation's GLB Radio Data Controller "RDC" is designed for point to point or point to multipoint networks to handle reliable high speed data up to 19,200 baud. The "RDC" is also designed for Spectrum/ Network efficiency to allow the maximum number of subscribers on the network. The "RDC" can be interfaced with most of superbolic superbolic potential. The "RDC" is available in a full enclosure (shown) or as an OEM component (boards only) for the best integration configuration.

Features

- Baud Rates: Over the air (1200 to 19,200 bps), serial (1200 to 38,400 bps)
- TCP / IP Compatible
- · Interface with "MOST" Radios
- TTL, RS232/422/485 Interfacing
- Robust "Forward Error Correction"
- Ideal for Polling and Time Slotting
- Regeneration for Increased Throughput
- Digipeating (Store & Forward)
- Supports point-to-point and point-to-multipoint, repeater operation with user-configurable addressing
- 2 Addressable Serial Ports
- Customer Programmable (EEPROM)

Applications

· Automatic Vehicle Location (AVL)

· Public Safety: Police, Fire, Ambulance

Mobile Terminals: Waste Management, Recycling, Scoreboards DGPS:

Guidance, Surveying, Railcars, Agriculture

· Intelligent Transportation Systems: Public Transit, Subway, Taxis

GLB Radio Data Controller **Specifications**

SYSTEM

Operating temperature range: -30°C to +60°C Storage Temperature: -55°C to +85°C

Warm-up time:

Humidity: 0 to 99% RH, non-condensing 4.485W x 1.425H x 6.577D Size:

Weight: 1 lbs (.4 kg)

Power requirement: 10-15 volts DC, negative ground

85 Milliamps Typical Current Drain:

DB25 Female Computer Connector: Radio Connector: DB15 Male

LED's:

FCC Type Acceptance: Part 15

Mounting: Mounting holes, Rack Mountable

Black, Anodized Aluminum, Dust, Water and Corrosion Resistant Packaging:

CONTROLLER

Serial ports: Primary & Secondary, TTL, RS232, RS422, RS485

Data rate, serial port: 300-38400

CPU Watchdog timer: Approximately 1 Second Transmit limit timer: Approximately 15 Seconds

Memory: 32K EPROM, 32K RAM, 512 bytes EEPROM

Backup method: **EEPROM**

Computer Interface: RS232 with optional RS 422 or RS 485

Flow Control: RTS, CTS, or XON & XOFF

Protocol: **CSMA**

Optional: Forward Error Correction

MODEM

Baud rate: 1200-19,200 Baud Modem Modulation: FSK, GMSK, Bell 202

CD response: 2 milliseconds

RADIO (DB15) **PIN DESCRIPTION**

- 1. Ground
- 2. Audio to Transmitter
- 3. Output Bit #1
- 4. Output Bit #2
- 5. Output Bit #3
- 6. Output Bit #4
- 7. Modem DCD (In or Out)
- 8. Input Bit #1
- 9. Input Bit #2
- 10. Audio from Receiver
- 11. Transmitter / Key
- 12. Squelch Input
- 13. +12 Volts Power Input
- 14. Remote Command Lockout
- 15. Reset

COMPUTER (DB25) PIN DESCRIPTION

- 1. Ground
- 2. RS232 Data In
- 3. RS232 Data Out
- 4. RTS In
- 5. CTS Out
- 6. DSR
- 7. Ground
- 8. DCD (+5V / MDCD)
- 9. Unused
- 10. Unused11. Unused
- 12. Modem (MDCD)
- 13. Secondary CTS Out
- 14. Secondary Data In
- Modem TX Clock
- 16. Secondary Data Out
- 17. Modem RX Clock
- 18. Unused
- 19. Secondary RTS
- 20. DTR
- 21. Unused
- 22. RI Grounded
- 23. Unused
- 24. Unused
- 25. Unused

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