

CCOM100GSM CELLULAR TELEPHONE PACKAGE

FEATURES

- Full Range Communication
- No FCC License required
- Low Power Consumption
- Wide Operating Temperature Range
- Compact, Lightweight
- Easy to Install

Introduction

The CCOM100GSM Cellular Telephone Package uses a Siemens TC35T module which is designed to allow transfer of data across a GSM (Global System for Mobile communications) digital cellular phone network. It acts like a GSM telephone module without a handset, but has an extra interface to allow the connection of data devices.

Operational Requirements

Any selected GSM service provider must be able to support the use of the Siemens TC35T in either 'transparent' or 'non-transparent' mode of data transmission at 9600 baud. Suitable routes to allow communication with the TC35T, such as access to land-line modems, should also be available. The TC35T module is suitable for use with both GSM900 (900MHz) and GSM1800 (1800MHz) networks.

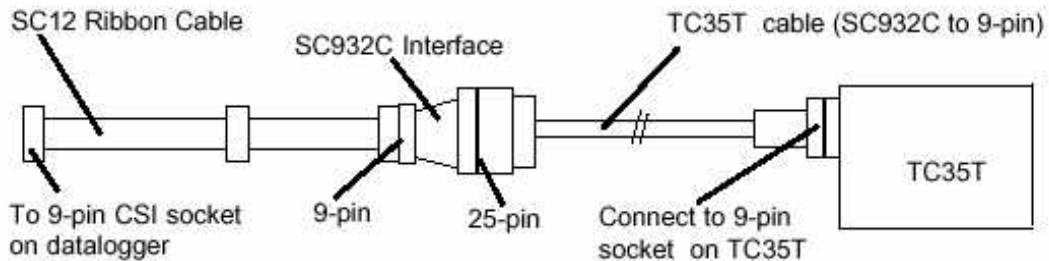
Network Coverage

Most installation sites within GSM coverage and should operate effectively. The coverage in some remote areas, however, may be poor, and so coverage should be manually checked using a normal GSM handset on the same network as any proposed TC35T installation to verify exact signal strength. In areas of normal signal strength the TC35T can be used with a small, low-cost, antenna. For areas of lower signal strength the simple antenna can be elevated where possible, or a higher-gain antenna can be used to improve communications.



SPECIFICATIONS:

Input Power Supply Requirements:	8-30V DC at an average current of 200mA (peak 2 amps)
System Power Consumption:	Typical: 20mA in 'standby' mode <200mA on-line
Communication:	Data Rate: Up 9600 baud with IMP-850 and IMP-860
Physical:	Operating Temperature: -20°C to +55°C Humidity: Up to 90%, non-condensing Size: 65mm x 74mm x 33mm Weight: 130g



To enable normal operation of all data logger peripherals which might share the 9-way serial I/O port on the data logger (e.g. storage modules) it is necessary to use an interface between the data logger and the TC35T. A number of interfaces can be used; the recommended interface is an SC932C, and this is shown in the connection diagram above.

The TC35T is fully compatible with the CPC208W Data Logger Support Software or LOGGERNET software..

A typical list of components required for a data logging system would be:*

- TC35T Digital Transceiver
- GSM-ANT Antenna
- TC35T-CABLE Cable for connecting the TC35T to SC932C Inter-face
- CSC932C 9-pin to RS232 DCE Interface



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