

# 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.

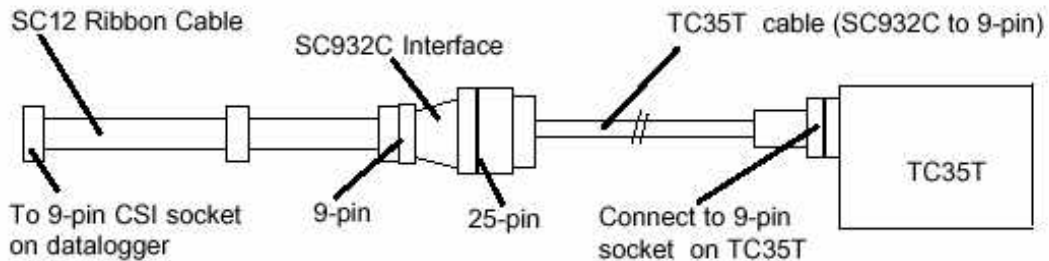
### ***Network Coverage***

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<br><200mA on-line  |
| Communication:                   | Data Rate: Up 9600 baud with IMP-850 and IMP-860   |
| Physical:                        | Operating Temperature: -20°C to +55°C<br>Humidity: Up to 90%, non-condensing<br>Size: 65mm x 74mm x 33mm<br>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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