

ST7537 POWER LINE MODEM

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SUMMARY

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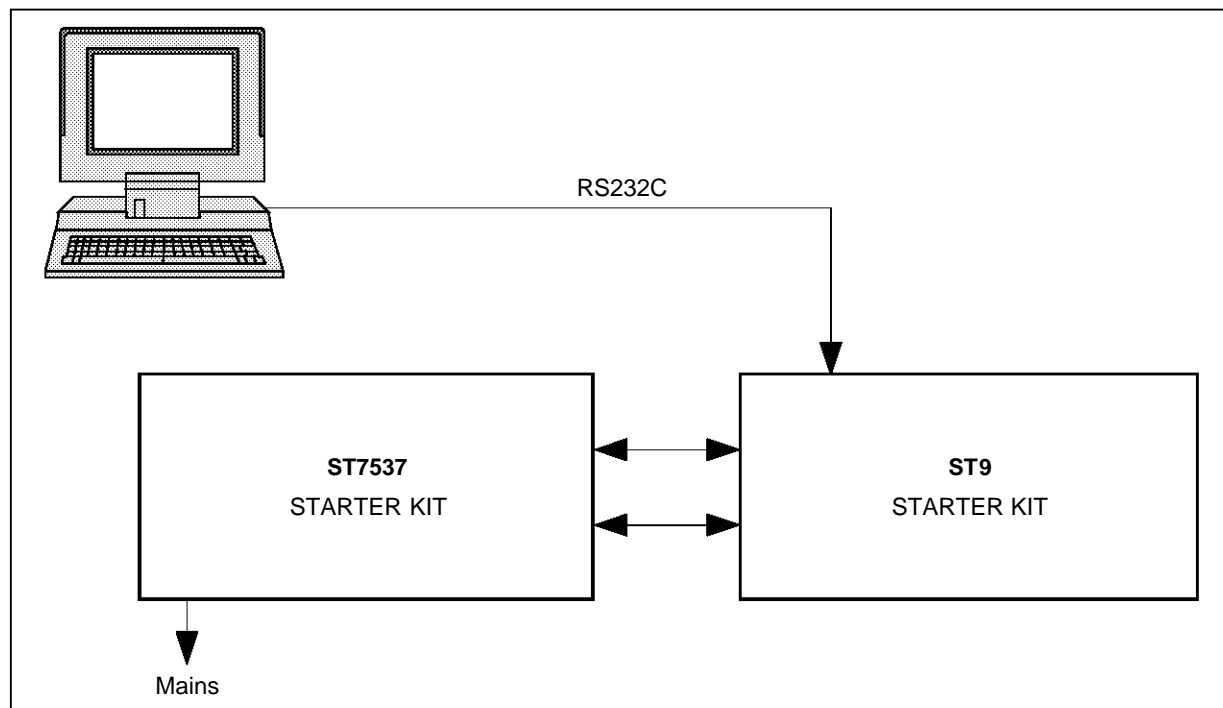
I - INTRODUCTION

The ST7537 starter kit has been developed in order to help customer for designing a Home Automation System.

Everything needed for using the micro-controller ST9 is on board and the ST7537 starter kit is fully compatible with the ST9 starter kit.

All connections for ST7537 and ST9 are on board and the only wiring you have to do is your application.

The board has been designed for the ST90E40 so you are not limited on resources and you can choose the microcontroller you want.



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II - STARTER KIT FEATURES

On the starter kit 2 applications are selectable :

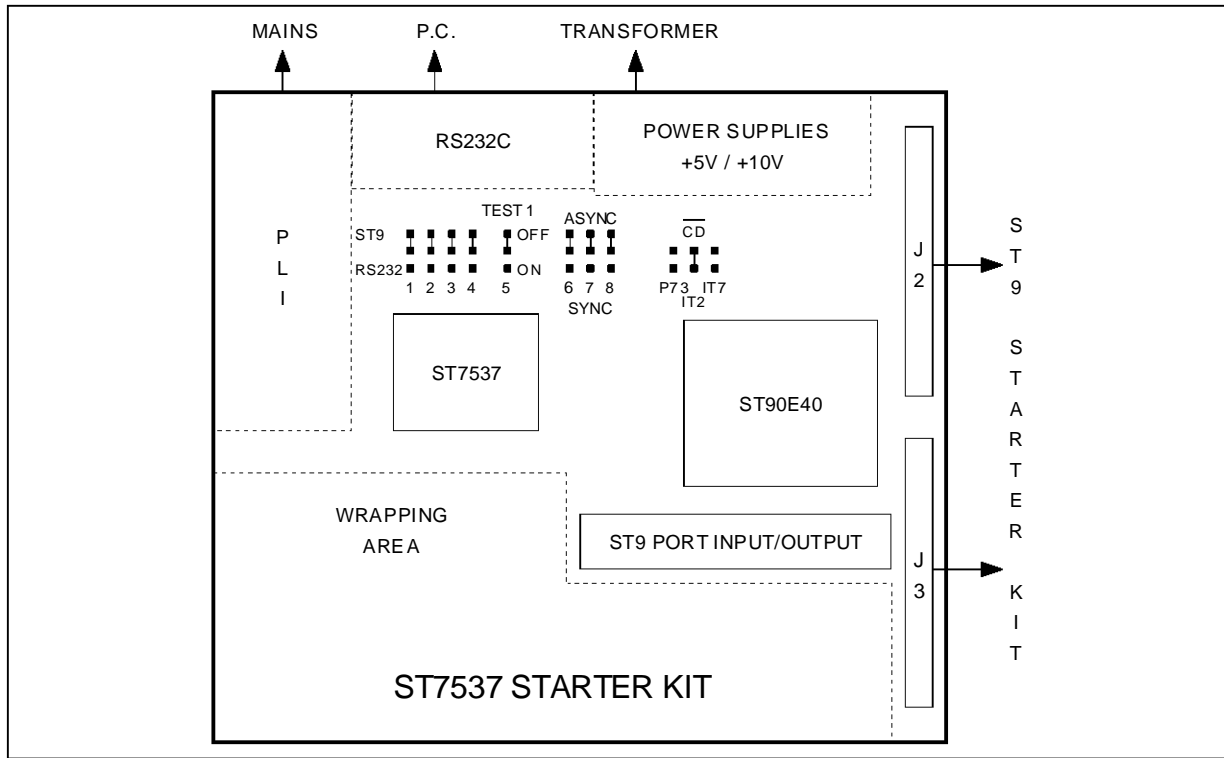
- RS232C application
- ST9 application

- application note
- starter kit board
- power transformer
- RS232C cable
- demo software

With the starter kit you have :

ST7537 POWER LINE MODEM STARTER KIT

III - BOARD CONFIGURATION



7537-80.EPS

- Application choice is made thanks to SW 1,2,3 and 4. You can select ST9 or RS232C application.
- During your development you could need to transmit more than 1 sec (specified by CENELEC), you can do so with SW5 (Pin TEST1 of 7537).
- The Carrier Detector can be connected either to

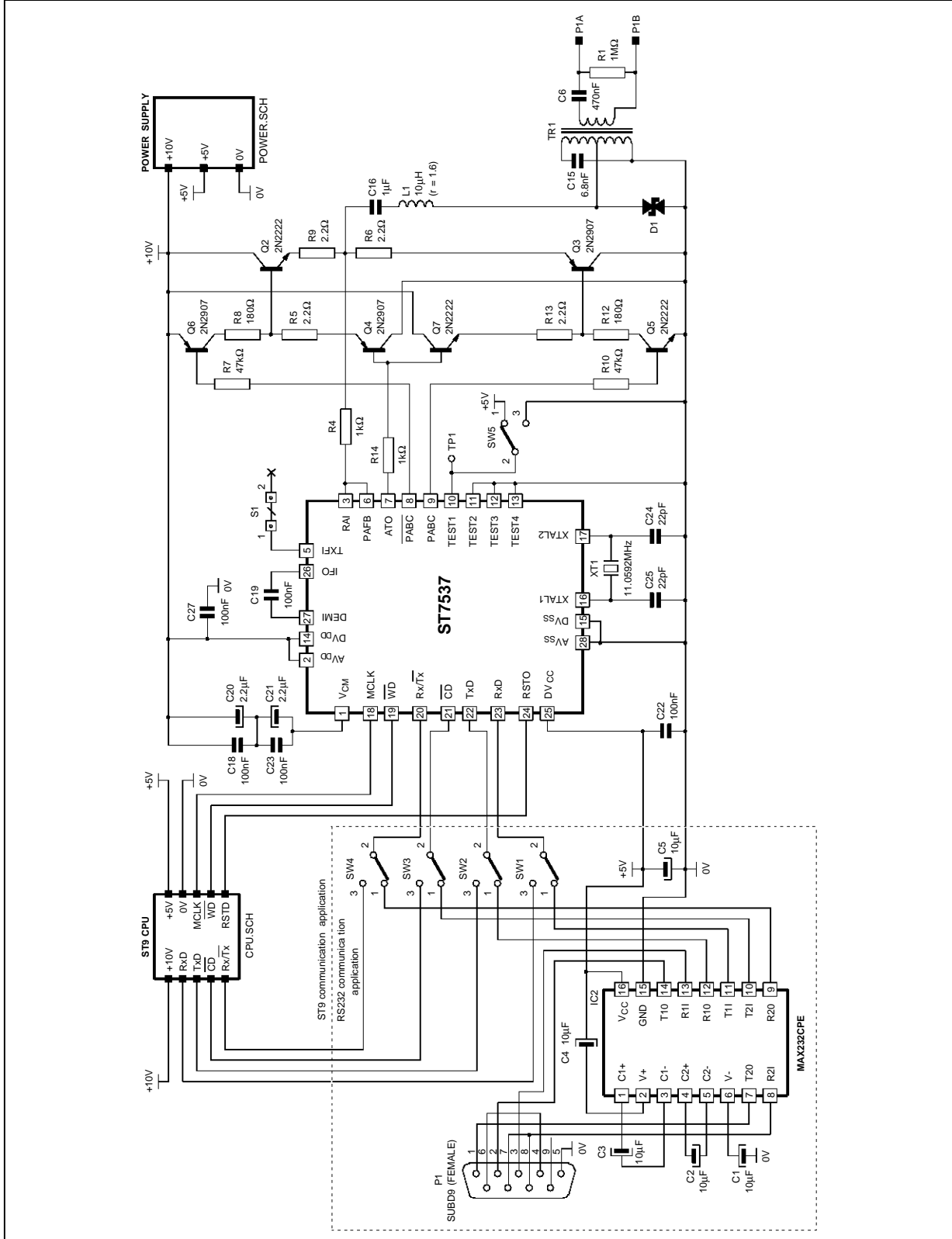
- INT2, INT5 or INT7 by using the JP1.
- The starter can be configured to work in asynchronous or in synchronous mode with :

SW6 → Rxd connected to Sin (P70)	Async
Rxd connected to P74	Sync
SW7 → Txd connected to Sout (P71)	Async
Txd connected to P75	Sync

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IV - SCHEMATICS

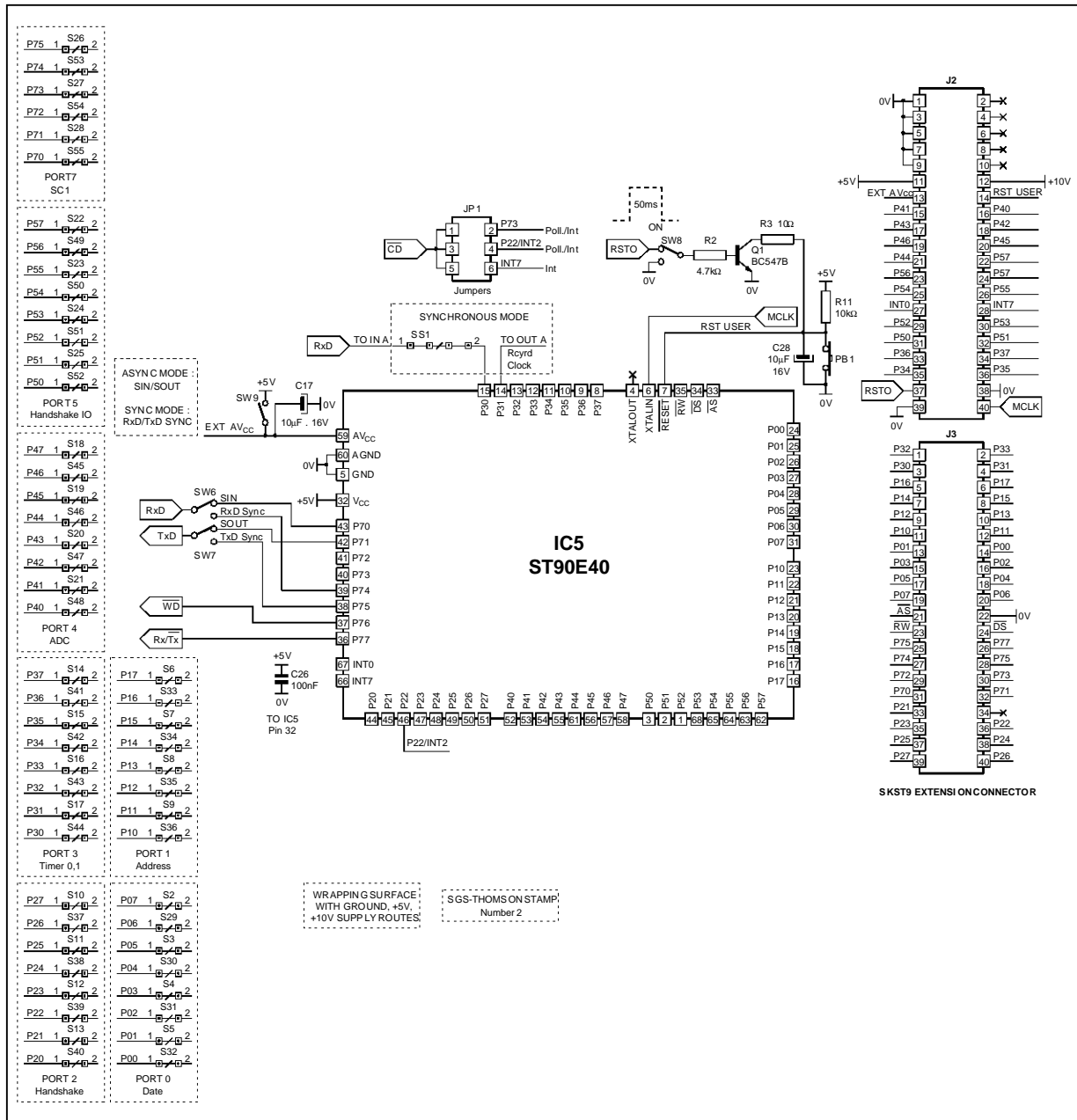
Figure 1



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ST7537 POWER LINE MODEM STARTER KIT

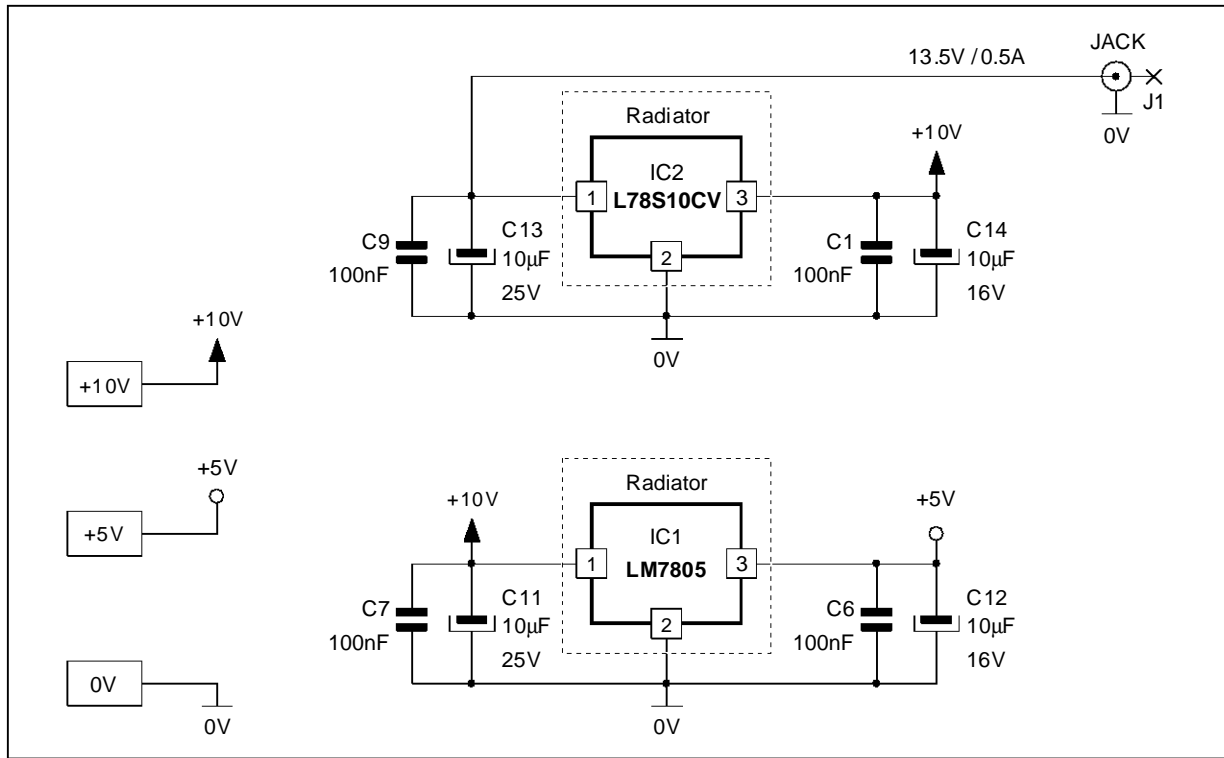
Figure 2



7537-42-EPS

ST7537 POWER LINE MODEM STARTER KIT

Figure 3



7537-63.EPS

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