

Sierra Radio Systems

Applications Note AN5

Interfacing the Palomar Telecom SP-24 to the
SRS Series 200 Control Systems

Version 1.0
January 2007



Introduction

The Series 200 control system can support the Palomar Telecom SP-24 serial to parallel interface for remote base radio control. The radio control board (RCB) which is interfaced to the SP-24 and the remote base radio must be modified to provide the necessary control signals. With the modifications and additions outlined in this document, the SRS control system will generate the necessary clock, data and strobe signals necessary to send frequency information to the SP-24. The interface signals are routed to these pins...

RCB connections to the SP24 board

DB-15 pin 4 Clock

DB-9 pin 7 Data

DB-9 pin 8 Strobe

DB-15 pin 31 Ground

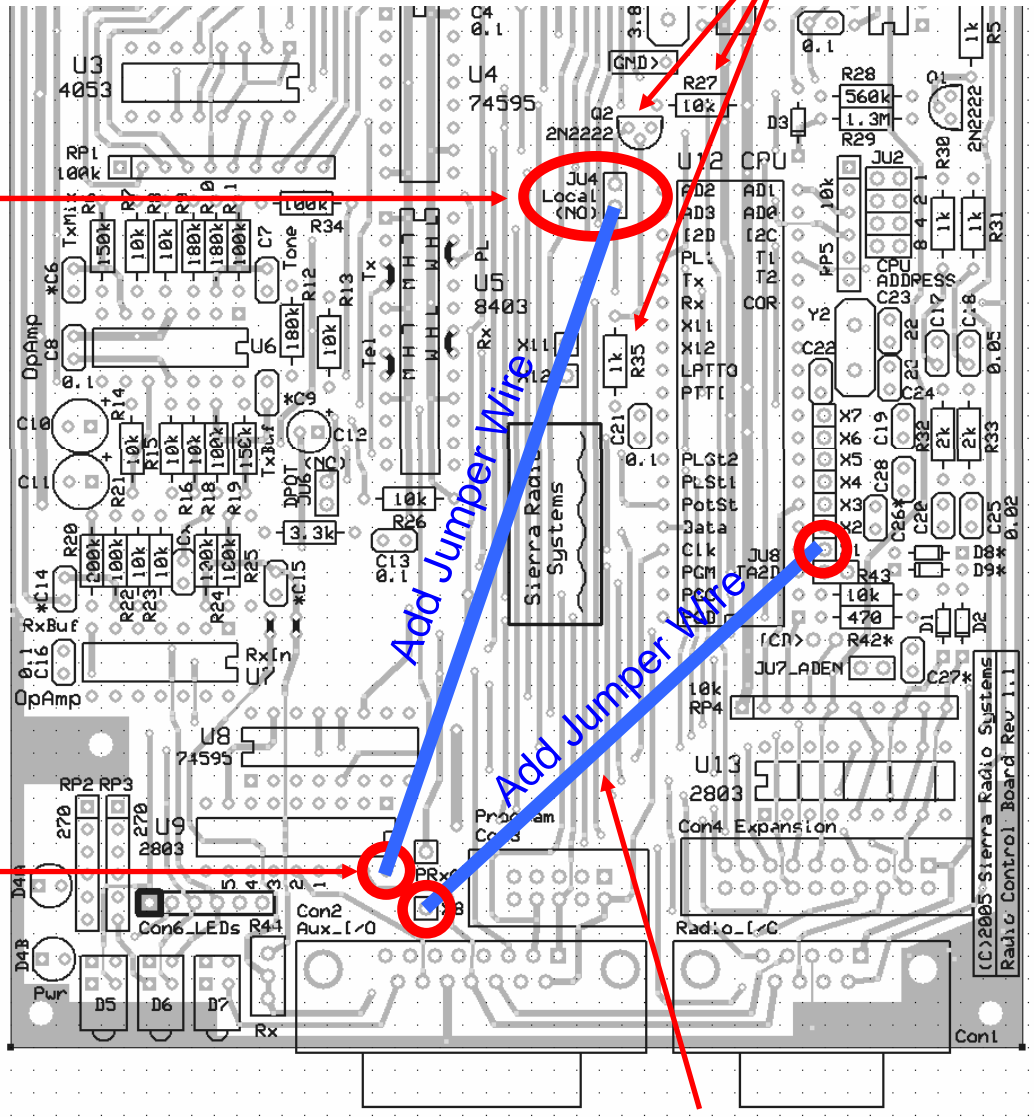
Modifications to the RCB to support the SP-24 board.

Add 2N2222 or VN10KM
 Add 10k pullup resistor
 Add 1k resistor

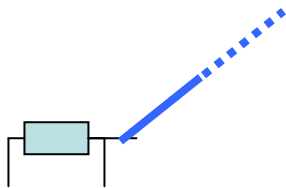
Do not Insert Jumper JU4

Lift out pin 18 of U9, the 2803 chip.

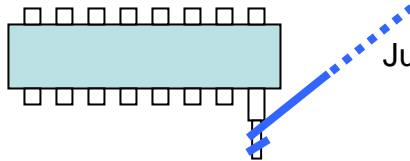
Then connect a wire from the lifted pin 18 of U9 to the lower post of the JU4 jumper block.



Add jumper from pad X1 to pad X8 to provide strobe signal to the DB15 pin 4.



74595 DIP package
End view.



74595 DIP package
Top view.

Jumper wire to JU4