Application Note 43
Replacement of AMD's AM79168, AM79169 TAXI™ Transmitter & Receiver with RCC700A Transceiver

This application note is intended to provide a transparent method to convert our customer's design-in of AMD's TAXI™ transmitter and receiver with Raytheon Semiconductor's single chip CMOS solution, RCC700A. This assumes the following:

- Synchronous operation of TAXI™.
- Only the control codes K28.0 through K28.7 are being used in the design using AMD's TAXI™ chips.

Most likely the customer is using an ASIC, programmable gate array or a programmable logic to interface to AMD's TAXI™ chips. If this is the case, they can reprogram the chip to accommodate Raytheon Semiconductor's RCC700A quite easily as noted in the figure and PAL equations.

PAL Equations

$DI7 = /CI3*CI2*CDSEL + /CDSEL*D7$
$D16 = /CI3*CI1*CDSEL + /CDSEL*D6$
$DI5 = /CI3*CI0*CDSEL + /CDSEL*D5$
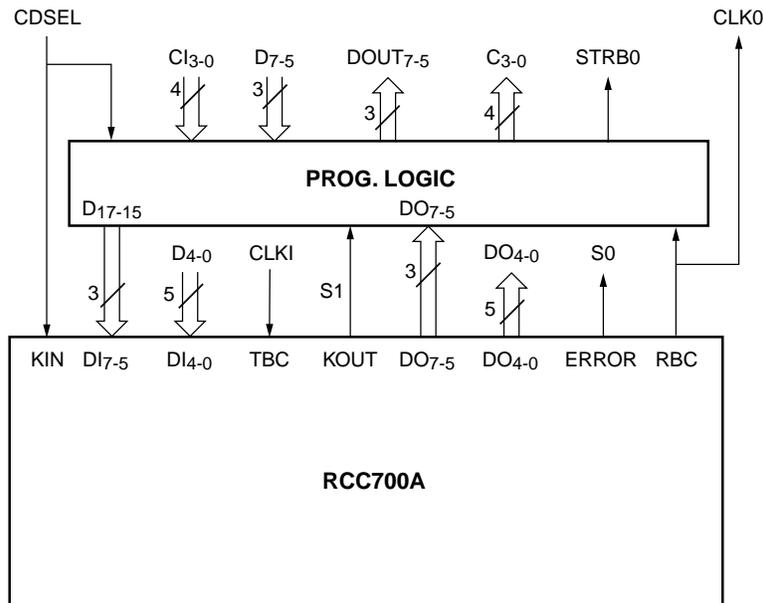$DOUT7 = /KOUT*DO7$
$DOUT6 = /KOUT*DO6$
$DOUT5 = /KOUT*DO5$
$C3 = /KOUT$
$C2 = KOUT*DO7$
$C1 = KOUT*DO6$
$C0 = KOUT*DO5$
$STRB0 = /RBC$

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