UDC-SA TECHNICAL INFORMATION GUIDE

RS-232 PORT, 7 BIT or 8 BIT PARITY SELECTION, DIP SWITCH SW2, PIN 8
SW2, Pin 8 ON = 8, N, 1
SW2, Pin 8 OFF = 7, O, 1

DIP SWITCH SW2, PINS 1 (SYNC ENABLE)
Enable SYN character (16h) recognition SW2 Pin 1 (Set to ON)

SYNC Control Charactor SW2, PINS 2-4
Enable U character (55h) recognition SW2 Pin 2
Enable T character (54h) recognition SW2 Pin 3
Enable S character (53h) recognition SW2 Pin 4

Input side
RS530 DTE
1200bps Synchronous 8bit character
Receive data input (pins 3/16)
DCD control signals (pins 8/10) are high when data is being received
CTS control signal (pins 5/13) pass through to output side
DSR control signal (pins 6/22) pass through to output side
Signal ground (pin 7)
Receive clock (pins 17/9) can either be gated or continuous
Transmit clock (pins 15/12) can either be gated or continuous
DTR control signal (pins 20/23) controlled by input side DTR (pin 20)
RTS control signal (pins 4/19) controlled by input side RTS (pin 4)
Max message size is 26000 characters
Start of data processing indication DCD control signal transitions from low to high
Start of message sync string to look for in receive data is 3 ASCII characters (used to identify first and last bit
of the synchronous characters for adding async start and stop bits to output data)
Sync Strings
SYNC control character (SYNSYNSYN) Hex 016 x3
Capital S's (SSS) Hex 053 x3
Capital T's (TTT) Hex 054 x3
Capital U's (UUU) Hex 055 x3
sync strings DIP switch selectable

Output side
RS232 DCE
2400 Asynchronous Start bit 8 bit character no parity 1 stop bit(switch selectable)
2400 Asynchronous Start bit 7 bit character odd parity 1 stop bit(switch selectable)
Receive data output (pin 3)
DCD control signal (pins 8) controlled by input side DCD (output needs to be in sync with receive data)
CTS control signal (pins 5) controlled by input side CTS
DSR control signal (pins 6) controlled by input side DSR
Signal ground (pin 7)
Receive clock N/A
Transmit clock N/A
DTR control signal (pin 20) pass through to output side DTR (pins 20/23)
RTS control signal (pin 4) pass through to output side RTS (pins 4/19)