ASC-422 TECHNICAL INFORMATION GUIDE

The ASC-422 Asynchronous (async) to Synchronous (sync) Converter is designed to allow RS-232 async start/stop terminal equipment to transmit over higher speed RS-422/449 or RS-530 sync modems. The ASC-422 devices are used in pairs, one at each end of the communication link between the Modem and Terminal device. The receiving converter converts incoming sync data to async start/stop character format with start/stop bit insertion as outlined in CCITT recommendation V.22. An option for Extended Signal Rate (Stop Bit Reduction) is provided when the async data rate is faster (1-2%) than the sync data rate.

The ASC-422 supports async data of 8, 9, 10 and 11 bits, including the start and stop bit. Standard data rates from 1200 to 38.4Kbps and 3/4 rates of 900 to 28.8Kbps are supported for synchronous transmission. The ASC-422 automatically adjusts the sync data rate to match the DTE's output rate. Selection of standard or ¾ data rates is required before the ASC-422 automatically adjusts to the clock rate.

The ASC-422 is supplied with a Male DB-25 connector for RS-232 DTE equipment and a female DB-25 that conforms to EIA RS-530 pin-out specifications for DCE equipment. A transition cable is provided for converting the RS-530 to the DB-37 RS-422/449 pin-out specification.

The ASC-422 unit also has a factory option for external DC supply via 2.1mm Jack. The **input voltage is 6.0 to 9.0** VDC.

SWITCH SETTING GUIDE:

SW-1	EXTENDED SIGNAL RATE
OFF	NORMAL
ON	EXTENDED

SW-2	SW-3	** CHARACTER LENGTH
OFF	ON	8 BIT
ON	ON	9 BIT
OFF	OFF	10 BIT
ON	OFF	11 BIT

** INCLUDES START AND STOP BITS

SW-4	SW-5	BAUD RATE
ON	OFF	FULL RATES TO 38.4K
OFF	ON	3/4 RATES TO 28.8K

CONNECTION:
Connect the *MALE* DB-37 to the DCE (Modem)
Connect the *MALE* DB-25 to the DTE (Terminal)

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RS-232 DB-25 PORT PINOUTS:

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1,9,10,11,12,13,14,15,16,17,18,19,21,22,23,24,25-NO CONNECT
2-TXD
3-RXD
4-RTS
5-CTS
6 to 20-Looped
7-GND
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RS-530/422 DB-25 PORT PINOUTS:

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1,6,11,18,20,21,22,23,24,25-NO CONNECT

7-GND

2-TXD(a)
14-TXD(b)
3-RXD(a)
16-RXD(b)
15-TXC(a)
12-TXC(b)
17-RXC(a)
9-RXC(b)
4-RTS(a)
19-RTS(b)


Leads that are used for the internal power supply.
RS-422 SYNC SIDE

5-CTS(a)
13-CTS(b)
8-DCD(a)
10-DCD(b)
15-TXC(a)
12-TXC(b)
3-RXD(a)
16-RXD(b)
17-RXC(a)
9-RXC(b)


A simple way to test the unit(s):

Loop back one of the DCE's, and then check that side for errors
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