



Specifications:

Interface: RS-530

Protocol: Synchronous or Asynchronous

Clock Source: Internal or External from either DTE (user-selectable)

Data Format: Synchronous: 8 data bits; Asynchronous: Transparent to data format

Flow Control: Transparent to software flow control: does not support hardware flow control, but, emulates RTS/CTS delay.

Operation: Point-to-Point

Data Rate: Any of 52 user-selectable data rates from 2.4 Kbps to 6.144 Mbps

Maximum Distance: From data or monitor port to attached device: 4000 ft. at data rates up to 100 Kbps. Above 100 Kbps, drops proportionally as data rate rises, down to 65 ft. at 6.144 Mbps

User Controls: (2) "Baud" thumbwheel switches for data rate: (1) "Delay" thumbwheel switch for RTS/CTS delay; and (1) recessed "LB" slide switch to start/stop bi-directional data

Internal Jumpers: (1) 8-position DIP switch for sync/async, clock source, RTS/CTS and RTS/DCD operation, and reclocking enable/disable; (1) Reclock-mode jumper.

Indicators: (5) Front-mounted LED's that show the state of SD/TD, RD, CTS, RTS, and DCD on data port J1

Connectors: (2) DB25 Female

Power: Input: 115VAC at 50 to 60 Hz, consumption 5 watts.

DIP Switch Settings (SW5):

Position 1 ON: J1; CTS forced High
Position 1 OFF: On data port J1, CTS follows RTS after a delay. (user-selectable thru front -panel Delay switch)

Position 2 ON: J2; CTS forced High
Position 2 OFF: On data port J2, CTS follows RTS after a delay. (user-selectable thru front-panel Delay Switch)

Position 3 ON: J1; DCD forced High
Position 3 OFF: J1; DCD follows RTS with no delay

Position 4 ON: J2; DCD forced High
Position 4 OFF: J2; DCD follows RTS with no delay

Position 5 ON: Data reclocking disabled (normal operation)
Position 5 OFF: Data reclocking enabled. Only select this if your equipment inverts the clock polarity. If you select this, you also need to invert the Modem Eliminator's data-reclocking circuitry; do so by moving the internal Reclock Mode jumper (located behind one of the other internal DIP switches, SW3) from posts 1 and 2 (normal, default) to posts 2 and 3 (inverted).

Position 6: is reserved

Positions 7 and 8: Both OFF (default setting): Internal Clock
Positions 7 and 8: 7(ON); 8(OFF); External Clock from the DTE on J1
Positions 7 and 8: 7(OFF); 8(ON); External Clock from the DTE on J2
Positions 7 and 8: Both ON; The unit operates **ASYNCHRONOUSLY**, as must both DTE's (data rate determined by DTE's)

Switch Setting	Data Rate	Switch Setting	Data Rate	Switch Setting	Data Rate
00	2.4 K	17	143.36 K	34	768 K
01	3.59 K	18	168 K	35	827.08 K
02	4.8 K	19	192 K	36	896 K
03	7.19 K	20	224 K	37	945.23 K
04	9.6 K	21	228.77 K	38	1.024 M
05	14.37 K	22	256 K	39	1.07520M
06	16.8 K	23	279.27 K	40	1.11709M
07	19.2 K	24	336 K	41	1.22880M
08	28 K	25	384 K	42	1.344 M
09	28.75 K	26	396.39 K	43	1.536 M
10	38.4 K	27	448 K	44	2.048 M
11	48 K	28	512 K	45	4.096 M
12	56 K	29	558.55 K	46	6.144 M
13	64 K	30	565.89 K	47	96 K
14	71.86 K	31	614.4 K	48	57.6 K
15	112 K	32	672 K	49	114.84 K
16	128 K	33	722.82 K	50	3.072 M

The Monitor Port:

The DB25 female connector on the front panel can be attached to a data-line monitor in order to keep tabs on the device connected to data port J2. On the ME112A model, this connector is pinned for standard RS-530 monitor outputs.

Pin	V.35 Signal	Pin	V.35 Signal
1	Shield	14	TDB
2	TD A	15	TSETC A
3	RD A	16	RD B
4	RTS A	17	RSETC A
5	CTS A	18	LL
6	DCR A	19	RTS B
7	SGND	20	DTR A
8	DCD(RLSD) A	21	RL
9	RSETC B	22	DCR B
10	DCD(RLSD) B	23	DTR B
11	TSETT B	24	TSETT A
12	TSETC B	25	TM
13	CTS B		