



# ME101A

### Specifications:

**Interface:** RS-449/RS-422

**Clock:** Internal or External from either attached device. (user-selectable)

**Data Rate:** Any speed up to 1.344 Mbps that evenly divides 2.688 Mbps. (user-selectable)

**Maximum Distance:** Up to 2000 ft. on each side, depending on cable quality and data rate.

**Connectors:** SME-422: (2) DB37 Female.

**Power:** 120VAC Standalone Models. Power Supply part # is PS146. Output = 17 VAC CT 700 ma. 230VAC = PS146E. 230VAC 50 HZ @ 50 ma; output = 17 VAC CT @ 700 ma.

**Indicators:** (6) LED's: TXD, RXD, RTS, CTS, DCD, and Power

### Strap Settings:

- W1: This strap is used to tie the chassis ground and signal ground together. The unit comes from the factory without the grounds tied common.
- W2: Incoming Call (IC) on J1 (pin 15) is connected to either ground (A-B) or +5V (B-C). The unit comes from the factory connected to ground (A-B)
- W3: Incoming Call (IC) on J2 (pin 15) is connected to either ground (A-B) or +5V (B-C). The unit comes from the factory connected to ground. (A-B)
- W4: In the A-B position, Data Mode on J1 (pins 11 and 29) is "OFF" and connected to Terminal Ready (pins 12 and 30). In the B-C position, Data Mode is "ON".
- W5: In the A-B position, Data Mode on J2 (pins 11 and 29) is "OFF" and connected to Terminal Ready (pins 12 and 30). In the B-C position, Data Mode is "ON".
- W6 and W7: Sets the Clear to Send delay on J1 and J2: Position A = 0 ms(no delay); Position B = 10 ms; Position C = 50 ms
- W8: In the A-B position, Receiver Ready on J2 (pins 13 and 31) is derived from Request to Send on J1 (pins 7 and 25). In the B-C position, Receiver Ready on J2 is connected to Signal Ground and is constantly held ON.
- W9: In the A-B position, Receiver Ready on J1 (pins 13 and 31) is derived from Request to Send on J2 (pins 7 and 25). In the B-C position, Receiver Ready on J1 is connected to Signal Ground and is constantly held ON.
- W10: Determines the clock source for J1 (pins 5 and 23-Send Timing-on J1, Pins 8 and 26-Receive Timing-on J2). In the "A" position, timing is internal (from the SME's internal clock). In the "B" position, timing is recovered (from J2's pins 17 and 35, Terminal Timing). In the "C" position, timing is external (from J1's pins 17 and 35, Terminal Timing).
- W11: Determines the clock source for J2 (pins 5 and 23-Send Timing-on J2, Pins 8 and 26-Receive Timing-on J1). In the "A" position, timing is internal (from the SME's internal clock). In the "B" position, timing is recovered (from J2's pins 17 and 35, Terminal Timing). In the "C" position, timing is external (from J1's pins 17 and 35, Terminal Timing).

Data Rate	Switch S1 Position						Switch S2 Position					
	1	2	3	4	5	6	1	2	3	4	5	6
1200	Off	On	Off	Off	Off	On	On	On	On	On	On	On
2400	ON	Off	Off	Off	On	Off	On	On	On	On	On	Off
4800	Off	Off	Off	On	Off	Off	On	On	On	On	Off	On
9600	Off	Off	On	Off	Off	Off	On	On	On	Off	On	Off
19200	Off	On	Off	Off	Off	Off	On	On	Off	On	Off	Off
38400	On	Off	Off	Off	Off	Off	On	Off	On	Off	Off	Off
48000	Off	Off	Off	Off	Off	Off	On	On	On	Off	On	On
56000	Off	Off	Off	Off	Off	Off	On	On	On	On	Off	On
64000	Off	Off	Off	Off	Off	Off	On	Off	Off	On	Off	On
76800	Off	Off	Off	Off	Off	Off	Off	On	Off	Off	Off	On
84000	Off	Off	Off	Off	Off	Off	On	On	On	On	On	Off
96000	Off	Off	Off	Off	Off	Off	On	On	Off	On	On	Off
112000	Off	Off	Off	Off	Off	Off	On	On	On	Off	On	Off
128000	Off	Off	Off	Off	Off	Off	Off	Off	On	Off	On	Off
192000	Off	Off	Off	Off	Off	Off	On	Off	On	On	Off	Off
224000	Off	Off	Off	Off	Off	Off	On	On	Off	On	Off	Off
336000	Off	Off	Off	Off	Off	Off	On	On	On	Off	Off	Off
384000	Off	Off	Off	Off	Off	Off	Off	On	On	Off	Off	Off
448000	Off	Off	Off	Off	Off	Off	On	Off	On	Off	Off	Off
896000	Off	Off	Off	Off	Off	Off	Off	On	Off	Off	Off	Off
1344000	Off	Off	Off	Off	Off	Off	On	Off	Off	Off	Off	Off