

Practica No. 5.-

Enlace Punto a Punto entre dos modems .-

Objetivo de la práctica .-

Establecer un enlace con dos módems utilizando las distintas configuraciones para los distintos escenarios que se pueden lograr, ya sea sincrónico, asíncrónico, a dos o cuatro hilos, por línea privada o línea conmutada, etc.

Marco Teórico .-

Las siguiente figura muestra la vista posterior del modem UDS Motorola V.3400, que es con el cual se trabajara en la practica.

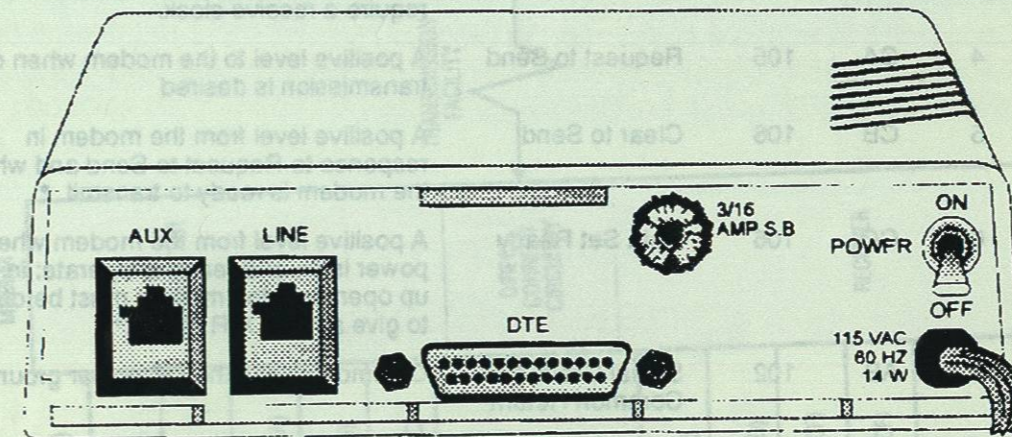


Figura 1-2

Instalación Eléctrica.

- La alimentación es proporcionada a través de un cable de 6 pies de largo con tres hilos para separar la tierra de la línea y el neutro. Le energía es de 120 Vac de un línea normal.
 - Conexión al equipo DTE .-
- El conector hacia el equipo DTE es un conector DB-25 de 25 pines conforme a las especificaciones del EIA-232. La señalización eléctrica en los pines es proporcionada en la siguiente figura y descrita en la siguiente tabla :

Table 2-1
Digital Interface Signal Descriptions

Pin No.	EIA-232D	CCITT V.24	Signal Name	Description
1		101	Shield	No connection
2	BA	103	Transmitted Data	Serial digital data (to be modulated) from a data terminal or other digital data source: Synchronous data must be accompanied by the modem transmit clock (pin 15) or by an external data rate clock (pin 24). Data transitions should occur on positive-going clock transitions; asynchronous data does not require a transmit clock.
3	BB	104	Received Data	Serial digital data output to the DTE interface: Sync data is accompanied by an internal data rate (receive) clock (pin 17) that has positive-going transitions on the data transition. Async data does not require a receive clock.
4	CA	105	Request to Send	A positive level to the modem when data transmission is desired
5	CB	106	Clear to Send	A positive level from the modem in response to Request to Send and when the modem is ready to transmit. *
6	CC	106	Data Set Ready	A positive level from the modem when power is on and ready to operate: In dial-up operation, the modem must be off hook to give a high DSR signal. *
7	AB	102	Signal Ground or Common Return	Common signal and DC power ground
8	CF	109	Received Line Signal Detector	A positive level from the modem indicating the presence of a received signal (carrier detect). *
9			+12 Volts	+12 voltage reference
10			-12 Volts	-12 voltage reference
11			Signal Quality Indicator	This circuit indicates probability of errors in the received data: a positive level indicates poor signal quality while a negative level indicates good signal quality. †
15	DB	114	Transmit Clock (DCE)	A transmit data rate clock output for use by an external data source: Positive clock transitions correspond to data transitions.

* Modem options may force these signals on or cause them to be ignored.
 † This function can be disabled or its logic sense reversed by hardware straps. Refer to Strap Options.

Tabla 2-1

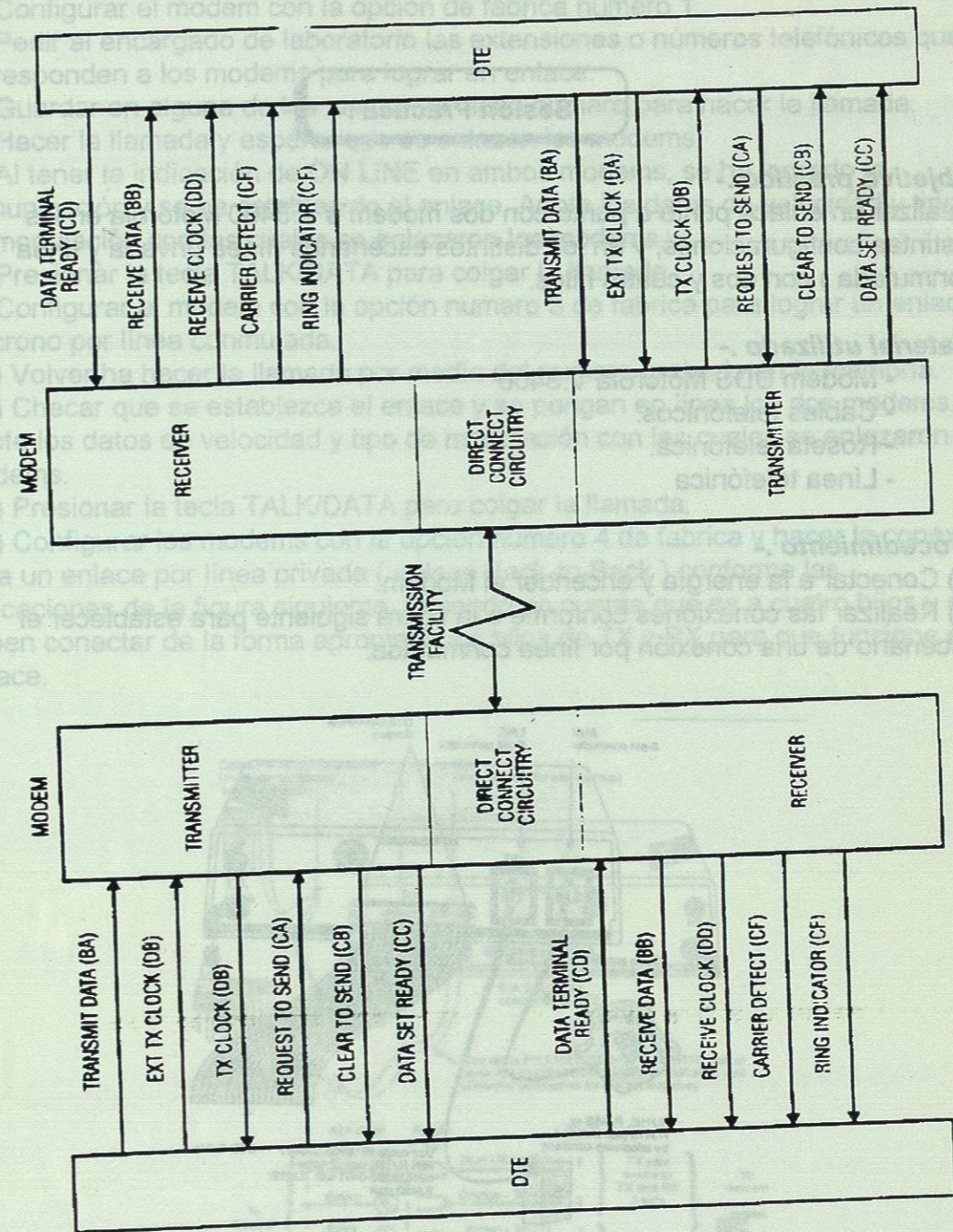


Figura 2-2