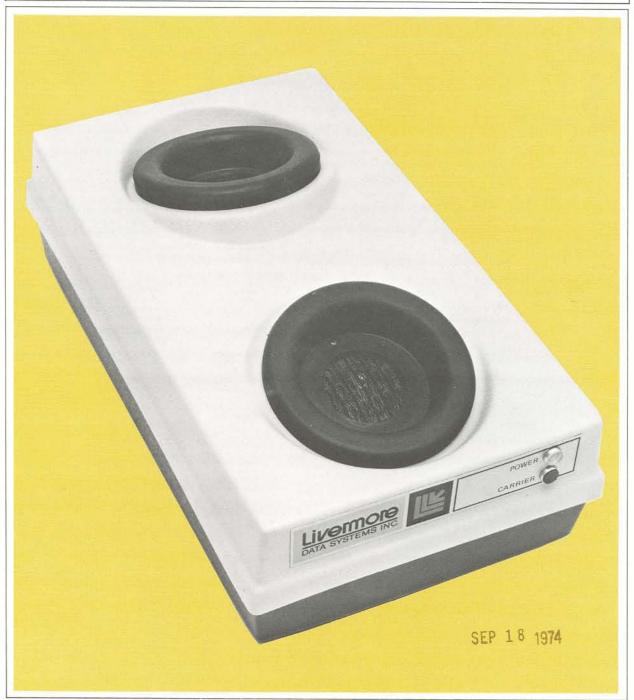


71 Series Data Modems



Acoustic and/or Direct Coupling
Full or Half Duplex
Answer and/or Originate

The Complete Family of 300 Baud Data Modems
Quality Performance at Competitive Prices.



ACOUSTIC AND DIRECT COUPLED DATA MODEMS

Compatible:	With the WE 103 and 113 A/B Data Sets and/or with Bell Systems Data Access Arrangement (DAA) and sys- tems utilizing EIA RS232 Inter-	• Durable:	High impact resistant case and hand soldered printed circuit cards com- bine to minimize the possibility of physical damage.
	faces; TTL Logic; and Teletype [®] systems operating in Full or Half Duplex modes.	• Flexible:	Plug-in circuitry facilitates conven- ient addition of special features tai- lored to system requirements or repackaging for OEM applications.
Economical:	Six models allow selection on a cost/performance basis.	Local Operation:	"Local" operation allows data from most peripheral devices to be checked before transmission.
Reliable:	Conservatively designed circuitry utilizing solid state and integrated circuits providing long-term stability and ultra-reliable operation.	• Easy To Operate:	a to the lower three bounds
	DESCE	RIPTION	
The Livermore "71 Series" data modems and acoustically coupled data sets are designed to operate in either the full or half duplex modes and are equipped with carrier de- tect circuitry.		out circuit that pro	ohibits the carrier detect circuit from or to placing handset in acoustic cups.
		For ease in operation	on indicators are provided to display:
to the terminal and - mitted tone, if an ac This eliminates typev	ircuitry inhibits the output circuit - in the originate mode — the trans- dequate signal is not being received, writer chatter prior to establishing a	2. Power ON/E the Data-Tr containing in	on of the received carrier Data-Transfer (The purpose served by ransfer indicator is that – on terminals nternal logic – it is possible to visually the terminal is being polled.)
alid communications link.		New filter and FM detection techniques produce optimum	
Acoustically coupled	models incorporate a special lock-		al detection in the presence of noise.
		ASIC SPECIFICATIONS	
Data Rate: Operating Frequencies:	Greater than 300 Baud Originate: Sénd - 1070 Hz/Space and	Switches:	Duplex; Full/Haif/Local Copy Coupling: DAA or Acoustic Answer or Originate Power ON/OFF
operating riequencies.	1270 Hz/Mark Receive – 2025 Hz/Space and	Indicators:	Power ON/Received Data Received carrier detected.
	2225 Hz/Mark Answer: Send – 2025 Hz/Spaceand 2225 Hz/Mark	Handset:	Western Electric Company Series 500 Telephone Set or equal.
	Receive — 1070 Hz/Space and 1270 Hz/Mark International (CCITT) frequencies avail- able.	Direct Attachment Arrangement:	(DAA) Western Electric Company Type CDT or equal,
Modulation:	Frequency Shift Keyed	Leased Lines:	DAA versions may be used on leased lines without requiring protective device.
Frequency Stability:	±0.3 percent.	Line Impedance:	Nominal 600 ohm.
Receiver Sensitivity:	Acoustically coupled – minimum of -50 dBm, Direct Access Arrangement (DAA) – minimum of -50 dBm,	Operating Temperature Range:	50°F to 105°F
Transmit Level:	Acoustically coupled15 dBm, Direct Access Arrangement (DAA)10 dBm,	Case:	High impact resistant Kydex plastic color coordinated to blend in with any sur- roundings.11-1/8''L x 4-1/4''H x 6-1/2''W
EIA Interface:	Compatible with RS232 specifications.	Power Input:	117 V AC, ±10 percent, 60 Hz, Four to
Teletype Interface:	20 milliampere full duplex loop standard. 60 milliampere half duplex loop option- ally available.		eight watts depending on model. (Other Input voltages and frequencies option- ally available.)
TTL Interface:	Available as Option.	Weight:	Six to eight pounds depending on model,
		Warranty:	One year on parts and labor.