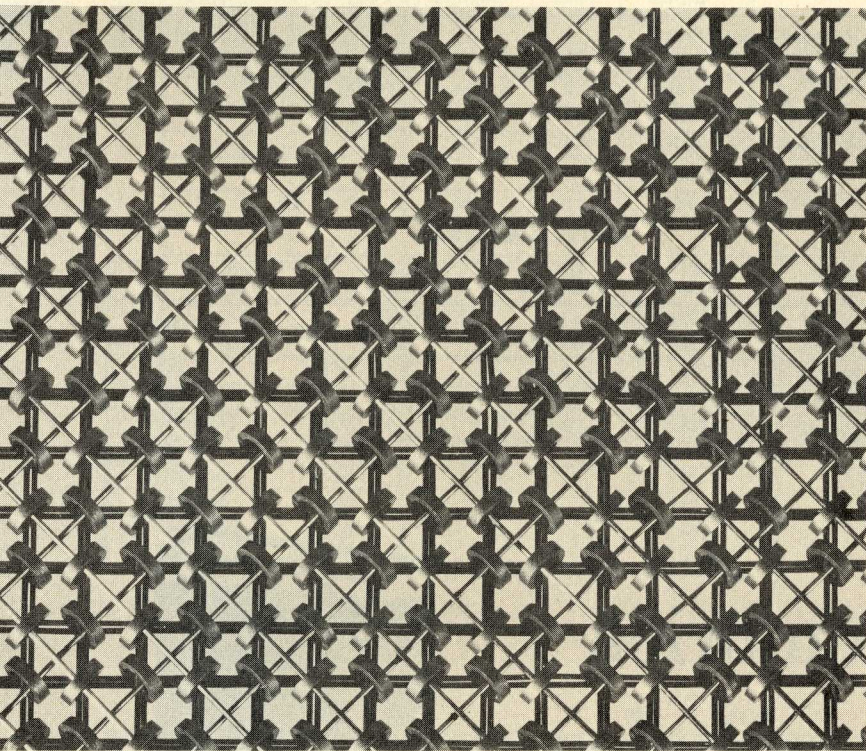


CONDENSED CATALOG

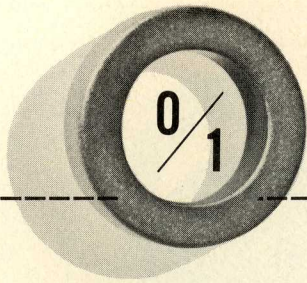


Telemeter Magnetics, Inc., designers and builders of the first commercial magnetic core memory, are producers of a full line of ferrite core products. A completely integrated facility—from metal oxides through ferrite production and array wiring to construction of complete memories and data systems—provides design flexibility, high quality, and manufacturing economy.

This catalog presents basic characteristics of the standard product lines. For detailed specifications of any item, or for information about special data handling systems, call or write.

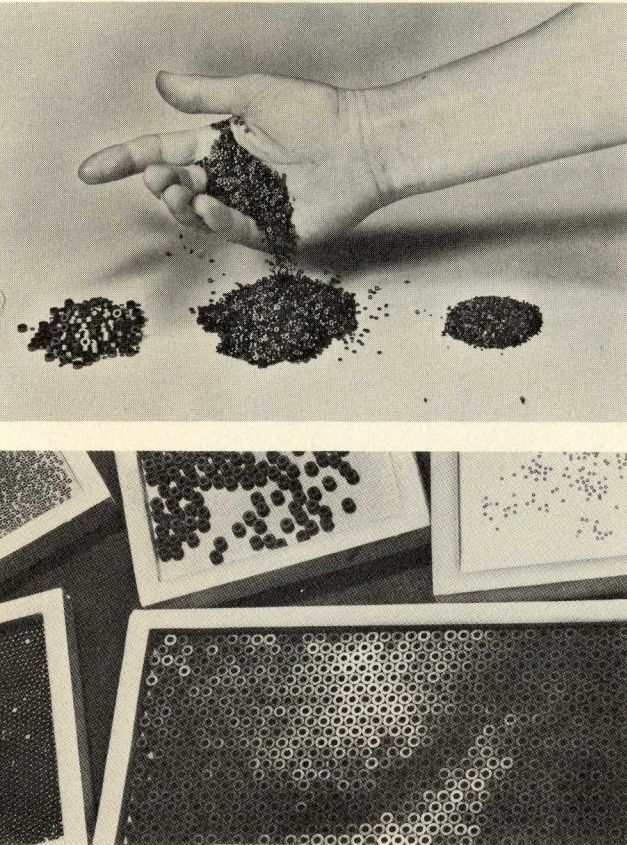


TELEMETER MAGNETICS, *Inc.*



ferrite cores

Careful selection and precise blending of materials plus rigorous quality control during manufacture mean that TMI cores can be specified with confidence. Every core is tested to rigid specifications... marginal characteristics are not tolerated. In addition to the standard units available, cores can be produced to satisfy individual requirements.

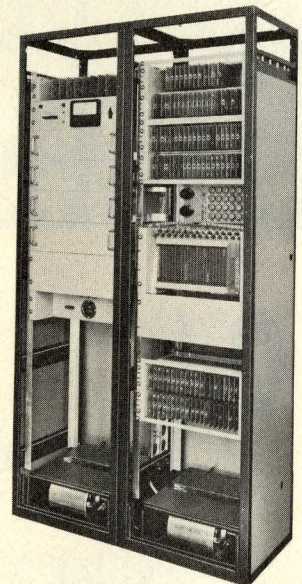


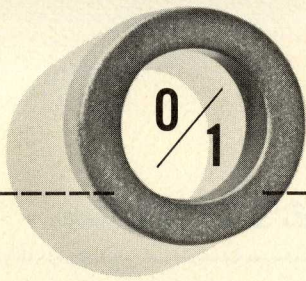
STORAGE CORES						
Type	O.D. Inches	T _s usec	Drive ma-turns	dV ₁ mv	dV ₂ mv ²	T _p usec
coincident current						
TM 802-10	0.080	1.25	820	125	10	0.65
TM 802-40	0.080	3.8	364	35	4.5	2.0
TM 501-10	0.050	1.0	500	75	5.0	0.5
TM 501-20	0.050	2.0	280	27	3.0	1.0
word selection						
TM 501-03	0.050	0.25	550	120	20	0.1
SWITCH CORES						
TYPE	O.D. Inches	Drive amp-turns	Turnover Time-usec	Output v/turn		
1002-10	0.100	1.05	1.3	0.150		
1002-40	0.100	0.475	5.0	0.028		
1801-10	0.180	3.0-4.0	0.4	5		
1802-50	0.180	3.0-4.0	0.5	4		
3752-50	0.375	3.0-4.0	1.5	2		

computer memories

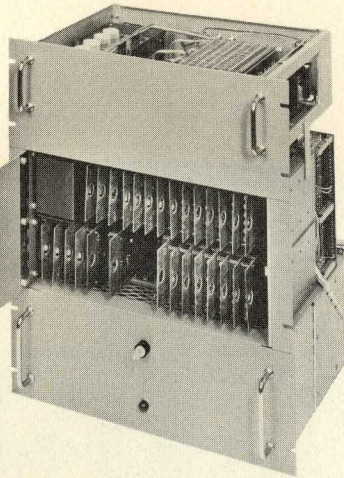
TMI fully transistorized memory modules are available in three basic series distinguished by differences in their cycle times. Modules can be combined to achieve large capacity. In addition, memories will be designed and constructed to satisfy requirements not met by a standard unit.

STANDARD MEMORY MODULES			
SERIES	CYCLE TIME μ seconds	CAPACITY words	WORD LENGTH bits
MQ	24	512 to 4096	as desired
RQ	6 to 8	1000 to 8192	4 to 80
LQ	1.5	512 to 8192	4 to 100





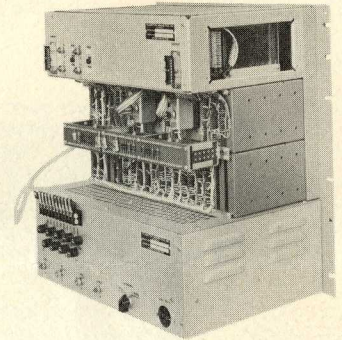
core storage buffers



These ingenious self-contained, transistorized memories, introduced by Telemeter Magnetics, provide means for synchronizing data systems of different speeds. Their operation is analogous to a computer having a simple, predetermined program. There are three basic types of buffers—*sequential* buffers, *conversion* buffers, and *random access* buffers.

SEQUENTIAL BUFFERS load and unload data one character at a time. Operations may be interlaced but the order may not be varied except to unload as desired in direct or reverse order of loading.

CONVERSION BUFFERS alter the format of data. For example, the Model 12-CIB card to tape buffer converts data from punched cards to binary coded decimal and provides 7 parallel outputs for magnetic tape format.



Common signal levels for TMI buffers are —
 ZERO . . . -5
 ONE . . . +5
 Output pulse duration . . . 1 usec.
 Min. time between sync pulses . . . 10 usec

SEQUENTIAL BUFFERS				CONVERSION BUFFERS				
MODEL	CAPACITY		OPERATING RATE Kilocycles	MODEL	BITS	OPERATING RATE Kilocycles	INPUT	OUTPUT
	Characters	Bits per character						
144-BQ4A	144	4	100	12-CIB		70	12 lines	7 lines
144-BQ8A	144	8	100	72CB56	4032	50	72 addressable	56 addressable
1092-BQ8A	1092	8	100	72CB64	4608	50	72 addressable	64 addressable
1092-BU7R*	1092	7	100	120-CB56	6720	50	120 addressable	56 addressable
2184-BQ8	2184	8	100	120-CB64	7680	50	120 addressable	64 addressable
720-BA7	720	7	100					
120-BA36	120	36	62.5					
120-BA42	120	42	62.5					

*Has remote electronic clear and empty/full signals.

random access buffers TYPE RB

A series of revolutionary new random access storage units is available offering a combination of features not previously considered feasible in any but custom units. TYPE RB feature addressable random access, sequential load and unload, or a combination of both as desired.

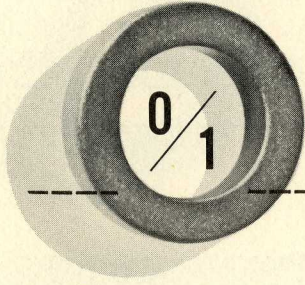
CHARACTERISTICS

Capacity—128 to 1024 words, 4 to 24 bits per word

Speed—Load or unload a word (all bits in parallel) in 5 microseconds. Random access with regenerative storage—complete cycle in 10 microseconds.

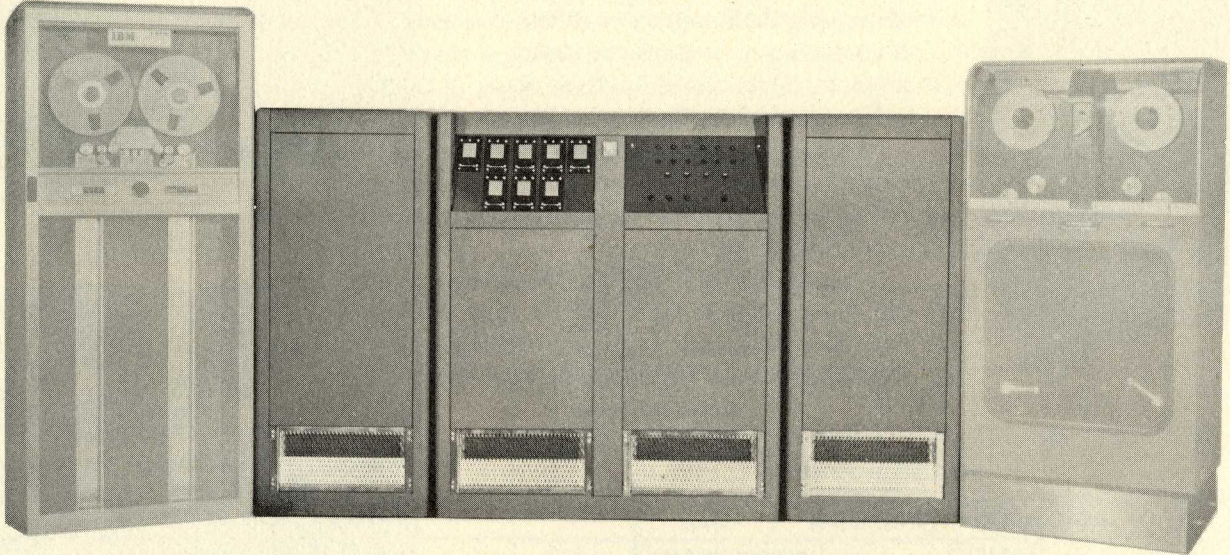
Input Signals—Reference level may be set to any value between +7 and -7 volts. Input signals may swing from 2 to 10 volts as long as signal passes through a region one volt plus and one volt minus reference.

Environment—Reliable operation will be obtained over the range from 0°C to 55°C under any humidity conditions to 99% R.H.



TELEMETER MAGNETICS, Inc.

data translators



Compatibility between data systems of different design is made possible by TMI Data Translators. This equipment provides the means for two-way conversion between one medium or format and another. Virtually any conceivable combination can be supplied for any two of the data media or formats of the following. As new computers are introduced, Data Translators will be made available to accommodate their characteristics:

Punched cards
Paper tape
Magnetic tape

Continuous data from transmission,
tape, analog-to-digital converters,
or digital-to-analog converters

*Among the magnetic
tape equipment for
which Data Translators
can be supplied are—*

IBM 650
IBM 704
IBM 705
DATATRON 205 and 220

UNIVAC I and II
UNIVAC 1103A
UNIVAC 1105

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