

ENGINEERS

- Evaluation and Test
- Manufacturing
- Others

Automatic Electric, a leading innovator of computerized electronic switching systems and the largest producer of communications equipment for the independent telephone industry, has numerous entry level and experienced technical positions available in the following areas: **EVALUATION & TESTING** Electronic and electrical engineers to initially learn the design of new electronic and computer systems and then perform prototype and/or field evaluation thereon. Entry level requirements — BS degree in EE, ET, or computer science with some knowledge of programming. Higher level positions exist for those with experience in electronic common control systems.

MFG. ENGINEERING Degreed electronic or electrical engineers (new or experienced) initially learn new computerized electronic telephone switching systems, design test equipment and associated test procedures and troubleshoot the mass production of this equipment.

Additional Positions currently available include:

- Component and Circuit Design Engineers
- Automation Engineers
- Chemical Engineers
- Switching System Planning Engineers
- Traffic Analysts

If you are interested in a progressive, growing company that offers well equipped modern facilities, a policy of promotion from within, and a pleasant West suburban location (15 miles from downtown Chicago), send your resume in confidence to:

Bruce Bullock

Professional Employment Representative

AUTOMATIC ELECTRIC

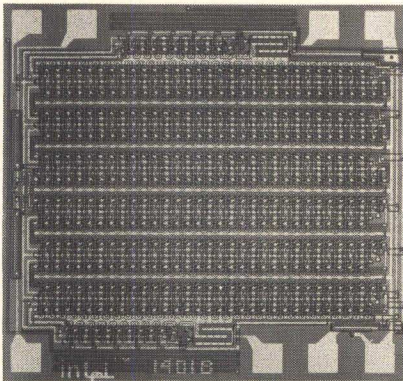
Subsidiary of General Telephone & Electronics

400 North Wolf Rd., Northlake, Ill. 60164
An Equal Opportunity Employer

NEW PRODUCTS

LSI SHIFT REGISTERS

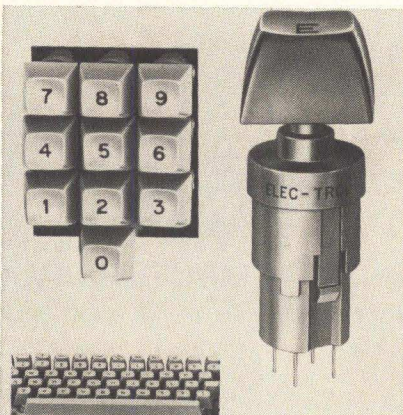
These dual 100-bit shift registers have a clock input capacitance of 35 pF, and use only 15 mA of power supply current at 10 volts. All units are guaranteed to operate at clock rates of up to 2 MHz. They may be interfaced directly with standard DTL and TTL logic. Two models are specified to operate from -55°C to +125°C: one with an open drain output (model 1-406) and one with a 20-k Ω output pull-up resistor (model 1-407). Two similar models operate from -25 to +70°C: open drain (model 1-506) and 20 k Ω (model 1-507). Intel Corp.



CIRCLE 204 ON INQUIRY CARD

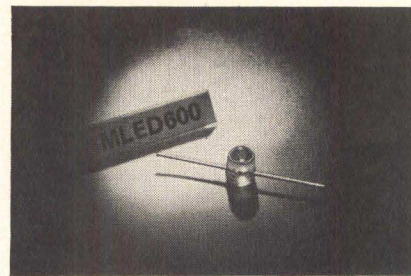
DATAKEYS/KEYBOARDS

Snap-Lock datakeys, available as individual components, have a snap-lock feature which inserts into a rigid metal panel requiring no mounting hardware. Up to three internal diodes are available within the datakey for steering, encoding, and MOS logic address. Legend buttons of various sizes, shapes and colors with standard or special markings are available. Keyboards have a rigid metal mounting plate for the datakeys which protects the printed circuit board from operating stresses. Compatible with DTL, T²L, or MOS logic, optional features of keyboard include ASCII, EBCDIC, BAUDOT and other codes; multiple shift; strobe delay; roll-over blanking; odd or even parity; positive or negative logic; error signal; repeat function; output latching. Elec-Trol, Inc.



CIRCLE 205 ON INQUIRY CARD

LIGHT-EMITTING DIODE



Emitting in the visible red waveband with typical peak emission at 660 nm, the type MLED600 gallium arsenide-phosphide photodiode exhibits a minimum brightness of 50 ft-L at 10 mA and typical brightnesses as high as 700 ft-L at drive currents above 40 mA. Other major electrical specifications are a low-nanosecond response time, a low typical forward voltage of 1.5 V at 20 mA, and a typical spectral line width of 20 nm. Maximum safe power dissipation is 100 mW at 25°C. The low forward voltage makes light-emitting diodes (LED) compatible with IC logic systems. Motorola Semiconductor Products, Inc.

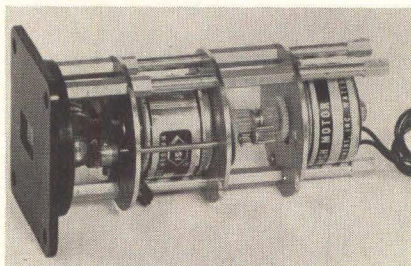
CIRCLE 206 ON INQUIRY CARD

DISC SYSTEMS

The FASTRACK™ 8100 disc systems are fast access head-per-track disc systems designed specifically for high performance real-time random access applications. Features include a 3-MHz bit serial data rate, 16.7-ms average initial access time, and random access to the next sector on any track in less than 15 μ s. Sector counters, manual write protection, and multi-controller access are included. Standard capacities are 24, 48, 72 and 96 M bits within one 19" rack mounted unit. In addition, a 6-MHz, 2-bit parallel version is now offered. Computer Peripherals Corp.

CIRCLE 207 ON INQUIRY CARD

ADD-SUBTRACT PULSE COUNTER



A simple application of two new stepper motors results in an add-subtract pulse counter that will accept plus and minus pulse counts simultaneously without ambiguity. This algebraic function is provided by a pair of 2-wire stepper motors coupled to the counter through a mechanical differential. One motor handles the "add" pulses, while the other receives the "subtract" signals. Pulse rates of as high as 60 pps may be achieved with pulse durations of 0.015 s, at a power consumption of 2 W max. per motor. Haydon Switch and Instrument, Inc.

CIRCLE 208 ON INQUIRY CARD