



Comprehensive Survey Of Exports 1987

Supplementary Issue



SmartLink 12008TM Half Card MODEM

FCC APPROVED

*The **Smart Link** 1200B Modem is available on a half size card. Perfect for the short slots in the IBM XT, AT, portable and many compatibles. *The **Smart Link** 1200B Modem is compatible with the standard Hayes software commands and it supports most communication programs available on the market, including Crosstalk, Framework, PC-Talk, Smartcom, Symphony and PFS: Access.

1111111111111111

	SmartLink 1200B	Others
* Automatic dialing, answering and speed selection	Yes	Yes
*Tone and pulse dialing	Yes	Yes
*Self Test	Yes	Yes
*Half-size card	Yes	No
*Call Progress Monitoring	Yes	No
*Switchable between data and voice	Yes	No
*Adaptive redialing	Yes	No
*Reports speed mismatch	Yes	No
*Extended HAYES command set	Yes	No
*Internal speaker with software adjustable volume control	Yes	No
*Configurable from COM1-COM4	Yes	No
*Extended dialing capabilities	Yes	No

Check these features before you buy a modem:



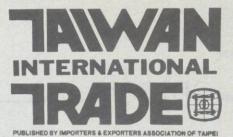
LINK TECHNOLOGY CORP. 2nd Fl., No. 1, Alley 8, Szu-wei Lane, Chung Cheng Rd., Hsin Tien, Taipei Hsien 23136, Taiwan, R.O.C. Telex: 33541 LINKTECH Fax: 886-2-9189283 Tel: (02) 918-9281

GU

Fact

Sanl

SmartLink is a trademark of Link Technology Corp. IBM XT and AT are registered trademarks of International Business Machines Corp. Hayes is a trademark of Hayes Microcomputer Products Inc.



行政院新聞局登記證局版台誌字第一三五一號 中華郵政北台字第0355號執照登記為第一類新聞紙類 台北市進出口商業同業公會 英文貿易雜誌社發行

Comprehensive Survey Of Exports 1987 Supplementary Issue

Chairman M.P. Chen Publisher Ting Yu-chuan President Chen Yih

EDITORIAL DEPARTMENT

Editor Chen Yih Managing Editor Tracey A. Feick Editor David Y.M. Seto Staff Reporters Kim Ning Blanche Cheng Denny Liu Mark Liu Melody Tsai Typesetter Maria Huang

PRODUCTION DEPARTMENT

Production Manager Starsky Cheng Director of Artists Chou Jui-Ii Artists Cypress Chang Hsieh Hui-fen Erika Lin Ling-Iing Shih Hope Lin Laurel Chen

BUSINESS DEPARTMENT

Vice Presidents Frank Sun John Huang Managers Robert Lin Stanley Li Assistant Manager Eric Chao Circulation Director Peter Wu Reader Service Anne Liu

HEAD OFFICE

5th FI., 350, Sungchiang Rd., Taipei, Taiwan, R.O.C. Mailing Address: P.O. Box 598, Taipei, Taiwan, R.O.C. Cable: "IMEXTAI" Taipei Telex: 23339 IMEXTAI

EDITORIAL AND BUSINESS OFFICES

United Pacific International Inc.

4th Fl., 311, Nanking E. Rd., Sec. 3, Taipei, Taiwan, R.O.C. Mailing Address: P.O. Box 81–417, Taipei, Taiwan, R.O.C. Tel: (02) 715-0751 (5 lines) Telex: 28784 UNIPAINC Fax: 886-2-7169493 Service Line: (02) 715-0660 Taichung Agent: (04) 254-9417 Tainan Agent: (06) 226-2741 Kaohsiung Agent: (07) 322-1803 Editorial contents partially provided by Central News Agency Inc., R.O.C.

The contents of advertisements in this magazine are the sole responsibility of the advertisers. The publisher does not assume liability for infringements on any patents, trademarks or rights that occur as a result of advertisements appearing in this publication.

Chiu Yu Printing Co., Ltd. Taipei, Taiwan, R.O.C. Tel: (02) 771-0175

Contents ____

Consumer Electronics & Information Products 13
An Overview
Novelty Telephones
Computers
Electronic Components
An Overview
Cables & Connectors
Cables & Connectors
General Merchandise
An Overview
Cosmetics
Sporting Goods
An Overview
Exercise Equipment
Reduction Manager States Contract
Gifts, Jewelry & Housewares 105
An Overview
Glassware
Beads & Necklaces
Mugs & Coffee/Tea Sets
Toys & Stationery Supplies 130
An Overview.
Dolls
School Bags
351001 2023
Machinery
An Overview
Milling Machines
Hardware & Auto Parts 164
An Overview
Builder's Hardware
Engine Parts
Constant and Frankling Constant Service Line (02) and Desta
Index of Advertisers 191
Total Pages 196

onsumer Electronics & Information Products

In Overview

1287

Consumer Electronics & Information Products

By Neil Bond

According to the Ministry of Economic Affairs, the estimated value of the R.O.C.'s electronics industrial output by the year 2000 will be \$10.87 billion. The industry will be the largest among all manufacturing industries.

The electronics industry in Taiwan has become a booming business, and electronic products have emerged as the key export items of the 1980s. In 1983, exports of Taiwan-made electronic products were valued at \$2.94 billion, and in 1984, outbound shipments of electronic goods were listed at \$5.5 billion.

During the first half of 1986 more than \$3 billion worth of electronic products were sold abroad, an increase of 11 percent compared with that for the corresponding period the year before.

Information Products

The information industry saw tremendous growth in 1986. Mini and personal computers were the leaders of this growth. In the first six months of 1986, exports of mini and personal computers grew by 131.6% over the same period the previous year. Technology in this area has improved and these products should have a bright future.

Other information products also had a good year. With a strong base in the TV industry, Taiwan's manufacturers are able to make quality color and B/W monitors. Monitor exports increased by 37.4%. Electronic computing machines were also up in the January to June, 1986 period. Growth was 28.1% over the same period in 1985.

On the bleaker side, printers, which have to compete on the market with the stronger Japanese products showed a negative growth rate in the first half of the year, with exports dropping 2%.

Consumer Electronics

Taiwan's consumer electronics manufacturers also had a pretty good year. Consumer electronic product exports averaged a growth of 4.2%. The record of individual products, however, varied a great deal, with some products seeing remarkable growth in exports and others facing major declines.

Among the products that experienced growth in the January to June period were color TVs (38.3%), car radios (500%), radios (3.6%), VCRs (82.7%), electronic clocks (38.9%) and miscellaneous products (46.9%).

Products that fared worse in the first six months of the year than they did in the same period the year before include B/W TVs (-11.2%), tape and record playComprehensive Survey of Exports

ers (-11.1%), calculators (-31.5%) and electronic watches (-6.9%).

-1987

In general, though, the line saw prosperity last year and manufacturers in the line are optimistic about the future.

Government Role in the Electronics Industry

Crucial to understanding the R.O.C. electronics industry is an appreciation of the role of the government, which has dubbed electronics a "strategic" industry in the country's economic growth. The government is making an all-out effort to expand and upgrade the industry in seven product areas.

The Ten Year Development Plan for the Electronics Industry, published in 1980, specified these target areas as components, data processing, software, communications equipment, industrial electronics equipment, test equipment and consumer electronics.

One of the government's major initiatives is the Hsinchu Science-based Park, modeled after California's Silicon Valley, which was begun in 1980. By 1989 the Park, located 60 kilometers south of Taipei, will have 150 to 200 manufacturers in production. Already the keystone in Taiwan's computer research and development, the park facilitates working together by the science-dominated universities, research organizations and private industry, all of which are located nearby.

The R.O.C. government now wants to make the park a "science technology city." The idea of transforming Hsinchu into a "sci-tech city" recently gained momentum when Premier K.H. Yu gave the go-ahead to preliminary architectural plans prepared by the Hung-yuan Christian University.

According to Li Cho-hsien, the Park Administration's director general, the planned "scitech city" will comprise four areas: a residential district in Hsianshan, a business area including the Science-based Industrial Park and the Industrial Technology Research Institute (ITRI), a historical preservation site (the old town of Hsinchu), and a college town consisting of the National Chiao Tung University and the National Tsing Hua University.

Li indicated that within ten years, Hsinchu Park and ITRI together will have a workforce of 70,000. It is also projected that Hsinchu's present population of 300,000 will double.

The Electronics Research & Service Organization (ERSO) of ITRI meanwhile has also been busy developing technology appropriate for Taiwan industry and providing tested manufacturing skills to produce high technology items. This has reduced the time necessary to transfer needed technology to private industry and reduced the risk in developing innovative products.

ERSO has played a major role in designing ICs, turning out over 150 designs in the last 10 years. In 1983, ERSO began a five-year plan to develop VLSI technology. ERSO operates the most advanced research facility, the second largest wafer fabrication facility and employs close to 1,600 people, many of whom are engineers.

Attractive government incentives such as low-cost loans, tax holidays, land, and even start-up capital are also helping to attract foreign IC manufacturers.

Philips of the Netherlands signed a joint venture agreement in June 1986 with ITRI to set up a new company, Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC), to produce very large scale integrated circuits (VLSI) in Taiwan.

Philips will acquire 27.5% of the shares in the TSMC, 48.3% will be held by the government of the R.O.C., with the balance available to domestic industries. The total capital investment will be \$210.5 million.

Initially, TSMC will lease the VLSI demonstration factory to be completed by ITRI. This \$63 million 1.5-2.0 micron factory will start production this year. By the end of the year, the factory will have a monthly production capacity of 800 6inch wafers (which will be cut in to VLSIs). That production capacity will then be boosted to 10,000 pieces a month by the end of 1987, according to Chang.

TSMC plans to invest \$150 million to set up a more advanced VLSI factory in 1989.

Not to be outdone, United Microelectronics Corp. (UMC) has decided to invest \$150 million over the next five years to expand its wafer fabrication plant.

At a time when the Ministry of Economic Affairs (MOEA) is frustrated in its attempt to solicit capital from private enterprise for a proposed VLSI project, UMC's plant expansion appears promising.

The \$150 million capital required for the project will be sourced from the issuance of new shares, profits earned from other investments, and bank loans. Of the \$150 million, \$125 million will be used to expand UMC's wafer processing plant, the remainder for R&D.

Taiwan's growth, its increasing sophistication and the government's economic incentives have combined into an attractive investment package. A survey of U.S. electronics firms rated Taiwan the eighth best place in the world for overseas investment.

1987

Tabulations compiled by the Ministry of Economic Affairs confirmed that, as of July 1986, among 445 foreign-invested electronic firms in Taiwan, 172 companies came from the United States and Europe, accounting for 39 percent of the total. The investments for those U.S. and European firms amounted to \$1.38 billion, occupying 66 percent of the total foreign investments in terms of electronics industry.

Comprehensive Survey of Exports

The Industrial Development Bureau recently hired the U.S. consulting firm Arthur D. Little to advise how to improve sales and service channels in the U.S. A report was made in June 1986.

The consulting firm noted the high growth rate of the industry, but pointed out that most local manufacturers are still too small and that neither the software industry nor the component industry has yet become firmly established. In addition, the ADL study revealed that most local information oriented firms derive their primary revenues from sales of terminals, printers, or personal computers.

The consulting firm suggested the R.O.C. government develop the capability of the Institute for Information Inustry (III) to be consultant for the industry and map out a plan to help upgrade local firms' marketing ability so that growth in the industry can be sustained. Outlook

If the future trends in the industry are fairly obvious-semicondustors, especially ICs and VLSIs, high technology, more emphasis on R&D and innovation-then problems, including marketing, are also fairly clear.

As Taiwan moves away from low-end, OEM production, brand name awareness in foreign markets will be critical. This is why ERSO has placed such emphasis on ICs and VLSI technology. The agency believes that this is the only way to develop custom circuits so that finished products will be distinct enough to win brand name awareness in foreign markets, and also to assure supplies of chips during times of shortage.

Taiwan certainly has the capital to underwrite major research, design and development. Its foreign exchange reserves are at least \$40 billion. On the whole, exports keep surging despite periodic downturns and its people save a remarkable 30 percent of gross national product.

Today, electronics is a proven money-maker. In 1983, it replaced textiles as the island's chief foreign exchange earner, and companies like Formosa Plastics, Taiwan's biggest private business conglomerate, are investing in its future.

CHOOSE THE BEST COMPANY FOR YOUR COMPUTER



T-1201

*A wide variety of uses: typical data display, graphics display device for personal computer applications
*High-quality pictures: resolution over 1,000 lines, video bandwidth over 20MHz

- *High contrast: dark tinted glass CRT
- *Dynamic focus: optimizes good focus at corners
- *Monochrome and RGB cards are available.

We also supply 5", 7" and 9" monitors for portable computer use.

COIN LAYER ENTERPRISE CO., LTD. P.O. Box 22037, Taipei, Taiwan, R.O.C.

No. 82, Jen Ai Rd., Tu Cheng Hsiang, Taipei Hsien, Taiwan, R.O.C. Telex: 33507 COIN Tel: (02) 262-9294, 262-9370, 262-9614 OEM orders and cooperative export ventures are welcome.



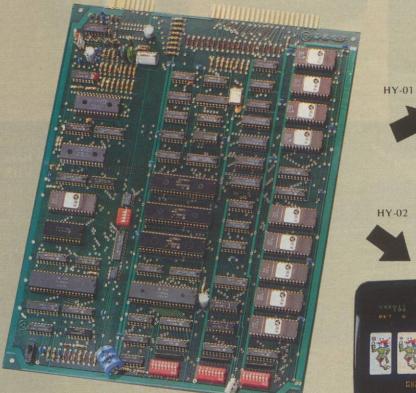
The Newest Poker TV Game-A Leader Worldwide!

* Our company's R&D department is constantly creating newer, better versions. * We are a specialized manufacturer of TV games. We invite agents to cooperate with us in the export of our products.



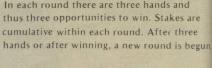






* In each round there are three hands and

HY-02





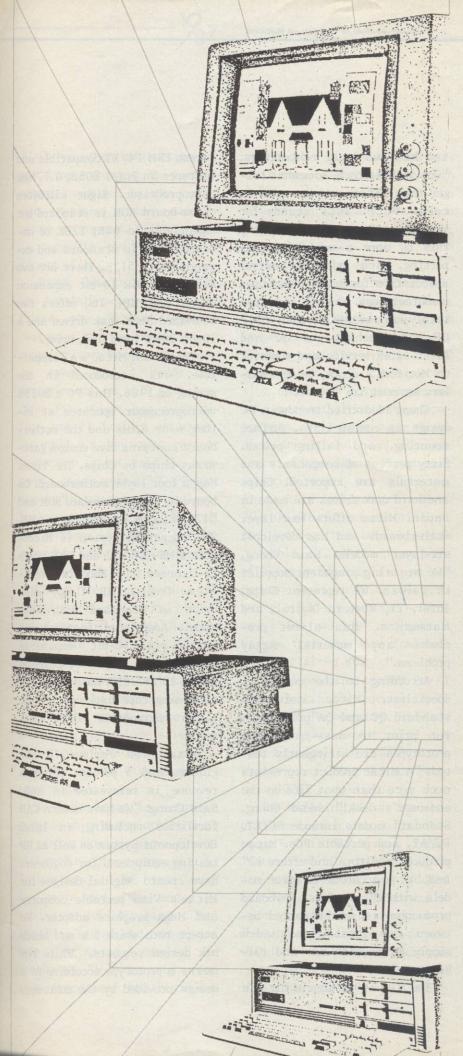
This PC board comes with the option of two functions, HY-01 and HY-02. You can choose which option you would like.



* The joker is the highest card with the highest stakes. Adjustment is automatic.



HUANG YEH ELECTRONIC CO., LTD. No. 163, Hsimen St Telex: 72770 HUA Tel: (05) 222-7730 No. 163, Hsimen St., Chia-yi, Taiwan, R.O.C. Telex: 72770 HUANG YEH



Personal Computers:

AT Compatibility The Trend

By Sean F. Delaney

Taiwan's computer industry is growing at a rate of from 35% to 40% per year. Assembled PC's are this country's most valuable export item. PC sources in Taiwan range from small trading companies which subcontract assembly to companies with close to 1,000 employees and overseas branches.

Of the four sources contacted for this report, not one produced or assembled Apple compatible machines. IBM PC/AT compatibility is the dominant production and sales trend among the companies contacted. Relevant trends also include larger memory capacities, 6 to 8MHz processing speeds, and gate-array ICs. No company contacted produces its own keyboard: all subcontract. The largest company contacted does produce monitors and the other three have OEM suppliers. ICs and disk drives are generally imported from Japan.

Companies contacted offer from one to 12 years of manufacturing experience. One company is actually a trading company which subcontracts assembly of components it sources. These companies employ from five to 800 people. Quoted production capacities indicate no correlation to company size and range from 1,500 to 3,000 per month. Exports account for from 65% to 97% of production. Minimum orders range from one to 50 pieces. Delivery times range from 10 to 60 days.

1987

For this report, TEI contacted Mitac Corp., Enson Enterprise Co., Ltd., Trun Sole Enterprise Co., Ltd., and Lynk Technology Inc.

Mitac Inc. was founded in 1974 and is the oldest computer company in Taiwan. Mitac's single, 1,900 square meter factory is located in Hsinchu. Office and production employees number 800, 130 of whom are engineers. The company manufactures a wide variety of CPU's, portable PCs, peripherals, and Chinese information-processing equipment. Mitac's first product was a Chinese word-processing system. The company is currently close to its 1,000 CPU per month capacity. A new factory to be built on existing land is due for November 1986 completion and should boost monthly capacity by 2,000 CPUs.

Mitac has distributors in 20 countries across the Americas, Europe, Asia, and Oceania. Eighty percent of production is exported; 50 percent of production is sold bearing the Mitac name. The United States is Mitac's largest market and American Mitac Corp., in Santa Clara, CA, handles North American business.

According to Catherine Chung, Mitac marketing specialist, Mitac has two local competitors. "One is Multitech, somewhat larger than Mitac, and the other is called VCCP. VCCP stands for Very Cheap Computer Company, and this is more a marketing, exporting, and quality control association for smaller computer manufacturers. Our QC is certainly more organized than VCCP QC, and perhaps our QC and after-sales service and superior to Mititech's since, being smaller, we must try harder."

Chung identified trends in PC design as custom chips, surface mounting, and falling prices. Sixty percent of components and materials are imported. Chips and hard disk drives are made in Japan. Mitac offers four layer motherboards and has developed six-layer models. Said Chung, "We are a big component supplier in Taiwan. We represent Chips, Intel, TI, Western Digital, and Matsushita. This almost precludes any material supply problems."

According to the marketing specialist, Mitac maintains standard QC and QA procedures. But prior to mass-production, prototypes are stringently tested. "A Mitac product represents much more than what sits on the end-user's desk!" added Chung. Standard models include PC/XT, PC/AT, and portable PCs. Mitac produces monitors and offers 12" and 14" monochrome or color models with PC systems. Keyboard production is subcontracted between two local firms which supply Mitac with 84- and 101key models.

The MPC 160 Series is Mitac's

latest IBM PC/XT compatible and features an Intel 8088, 4.77MHz microprocessor. Eight kilobytes of on-board ROM is standard but expandable to 64K; 128K of onboard DRAM is standard and expandable to 512K. There are two 8-bit and six 16-bit expansion slots. The MPC 160 offers two standard 360K disk drives and a 10 or 20MB hard disk drive.

The Titan, Mitac's AT compatible, was introduced in the spring of 1986. This PC's 80286 microprocessor operates at either 6 or 8MHz and the motherboard contains five custom gatearray chips by Chips. The Titan has a four layer motherboard. On board is 64K of standard ROM and 512K of DRAM, expandable to 4MB. The operating system is Microsoft's MS-DOS 3.2 and BIOS which is licensed from Phoenix Associates. One 1.2MB floppy disk drive is standard with each model. Additional features insix 16-bit clude expansion slots, two 8-bit expansion slots, 10 or 20MB hard disk, and streaming tape back-up options. Titan accomodates PC/XT software.

Mitac R&D employs 70 engineers and 5 percent of sales revenue is reinvested in R&D. Said Chung: "We have modern CAD facilities including an Intel Development System as well as HP testing equipment. Our engineers have creatd original designs for Mitac's Viso portable computer and Mega graphics adapter. We accept both white box and black box design requests." White box means a prototype according to a design provided by the customer. Black box refers to a design and prototype according to specifications supplied by the customer. Minimum orders are 50 pieces or greater. Delivery time is typically two months from receipt of L/C.

1987

Enson Enterprise Co., Ltd. was founded one year ago by some friends who all quit separate companies to form Enson. Export manager Jarry Ku said the company makes add-on cards and motherboards, as well as assemblies PCs. Enson has eight office and 24 factory employees. Ku would not say what current production is but said the company's capacity is 1,500 PCs per month. "If an order is too large for our resources, we will tell the customer instead of turning around to subcontracting production," he said.

Though the company has 30 active export customers, 65% of sales are still local. "Many of these are indirect exports though," said Ku. "Germany is our largest foreign market. Generally we only support one agent per country, though larger countries with high volume sales are an exception. We invite proposals from agents wishing to represent Enson."

Ku feels Enson is a unique company which places achievement in product quality above financial profit. "Many companies in Taiwan stay in business for a few years and make money by selling a few thousand cheap PCs. This is bad and ruins markets for the rest of us." He continued: "We are right for some companies, not right for others. We give our customers what they need to identify with their product. If you are the boss of your company, you can do your business with the boss of Enson. Business can be done among equals here."

Enson is applying for FCC approval, which Ku says is a large part of the company's R&D budget, and hard on a company Enson's size. The urgency of FCC approval aside, Ku cited processing speed and larger memories as important trends. Most components are Taiwan-made though disk drives and some ICs are imported from Japan. Though some material costs are going up, Enson PC prices are going down. "Our QC scrutinizes materials at the source, then burn-in tests assembled PCs. We keep one piece of every production lot at the factory so if anything ever goes wrong with an overseas customer's PC, we can evaluate a sample from the same lot right away," claimed Ku.

Enson produces an IBM PC/XT turbo switchable between 4.77 and 8MHz. The company can supply keyboards and monitors of any specification with its CPUs. The most popular CPU model currently is a PC/AT compatible.

The standard AT has a microprocessor which can switch between 6 and 8MHz. Memory configurations of 512, 640, and 1024 are available on a standard four-layer PCB. A monochrome or color graphics card is optional, disk drive controller cards are standard. One floppy disk drive is standard as is a 20MB hard disk drive imported from Japan's NEC. Power comes from a 192 watt switching power supply.

Enson employs five engineers and welcomes custom orders. "We are willing to satisfy OEM customers," said Ku. "We are getting into industrial control systems and even toll booth money-collection systems. The challenge of custom orders inspires us." There is no minimum order. Orders of 100 pieces can be shipped within 10 days of receipt of L/C.

Trun Sole Enterprise Co., Ltd. has manufactured motherboards, and enhancement cards, and assembled PCs for three years. The company's 330 square meter factory is located just south of Taipei in Chungho. Trun Sole employs 16 people, three of whom are engineers. "We can produce as many as 4,000 PCs per month. At the moment we produce 1,300 per month, almost twice what we produced last year," said Saphia Dong, Trun Sole export manager.

Ninety-seven percent of production is exported. Almost every one of the company's six export customers is a distributor or importer. The United States and New Zealand are the company's largest markets. Dong feels customers do well by buying Trun Sole PCs because the company is still small and interested in accomodating all potential customers. Said the export manager: "We, unlike many other firms, use only new ICs. all of which are imported from Japan. Our disk-drives are also imported from Japan."

Material costs are expected

to remain stable or rise slightly. All production and assembly is done in-house. "Quality Control is performed on assembled PCs and this includes 24-hour burn-in testing. Four technicians oversee this process," said Dong. Standard model PCs include IBM PC/XT and PC/AT compatibles. Monochrome monitors, as well as 84- or 101-key keyboards are supplied with each CPU.

1987

The XT compatible comes with up to 640K of memory on board and a 4.77MHz microprocessor. A two-layer PCB is used for the XT compatible. Eight expansion slots, two of which are 8-bit, accomodate enhancements which are also available from Trun Sole. This mdoel is powered by a 150 watt switching power supply. Two standard floppy disk drives are imported from Japan.

Trun Sole's AT compatible features an 8MHz micrprocessor and clock IC on a four-layer motherboard. One megabyte of memory is standard and 10 or 20MB hard disk drives are optional. The AT compatible has eight expansion slots, two of which are 8-bit. A 200 watt switching power supply powers the PC. This is currently the company's most popular model.

Dong said prices will go up over the next year, reflecting increased labor and quality certification costs. Trun Sole engineers are capable of custom design services and Dong invites all inquiries. With the exception of a single, sample PC, a minimum order is usually five pieces. Orders of 50 to 100 pieces can be shipped within 45 days of receipt of L/C.

Lynk Technology Inc. is one year old. The company is a trading company which sub-contracts the assembly of CPU's and locates keyboards and monitors. Previously, company President Frank Lin founded and managed a computer technology importing company in greater New York City. There are five employees, including one engineer who oversees the more technical aspects of Lynk's business. Complete PCs may be enhanced with interface cards, hard disk drives, and tape back-up systems, all of which Lynk supplies.

According to Lin, there is no limit to the number of PCs Lynk can supply. The company currently exports 500 per month. "Late May, June, and the beginning of July were slow. But business has since picked up," said Lin. The company has ten PC customers, three of whom are in the United States, the remainder are West European importers. Local orders account for 10% of Lynk's business. Lin feels the advantage of doing business with Lynk is that Lynk is always sourcing the most economical, first quality PCs.

The company sells individual components in addition to selling complete PCs. Coginto hard disk drives and Chips gate-array ICs are purchased from Japan. Price trends across PC components are mixed and prices for assembled PCs should remain stable. "QC begins when we source components. The most important part of our QC is performed on assembled PCs. We leave the PCs on for at least 24 hours and run a variety of software through them."

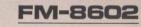
The company's most popular model is an IBM PC/AT compatible with an 80286 microprocessor switchable between 6 and 8 MHz. It features a standard 1MB motherboard with clock IC, but can be enhanced with a 2.5MB multifunction card. The board accomodates three 8-bit and five 16-bit add-on cards. This PC comes with two floppy disk drives and a 20MB hard disk drive, all which are imported from Japan. Disk drive controller cards and a monochrome graphics card are standard, as is a 200 watt switching power supply.

Lynk can supply keyboards and monitors. Although an IBM-style keyboard is available, the standard model has 84 keys, ten of which are programmable function keys. There is a large "Return" key, as well as LEDs monitoring the status of "Capital Lock", "Scroll Lock", and "Numeric Lock." Lynk's standard monitor offers a twelve-inch, amber or green phosphor screen. Resolution is 720 columns by 350 lines. Controls are front-mounted.

Lynk is prepared to source for buyers, but cannot provide true custom design services. Small orders can be shipped within two or three days of receipt of L/C, larger orders, such as 200 pieces, may require 10 days. There is no minimum order.

ued compute pment Duld **SUPERIOR CASES**





Mini Model FM-8602 (40x36x15.5cm LxWxH)

- *3 disk drives (2 floppy and 1 hard) *Compatible with PC/AT Baby and PC/XT
- *8 slots
- *Meets F.C.C. requirements
- *Nickel and zinc plated enamel coating.
- *Cases for mini switching power supply optional

Control Panel

We import parts from Denmark to assure the quality of our control panels. Each has a Reset and a Turbo function.

Full-size Model FM-8601(53.5x42.5x15.5cm LxWxH)

- *Exterior similar to IBM RT
- *For IBM PC/AT
- *5 disk drives *Meets F.C.C. requirements
- *Nickel and zinc plated enamel coating

Electroplating

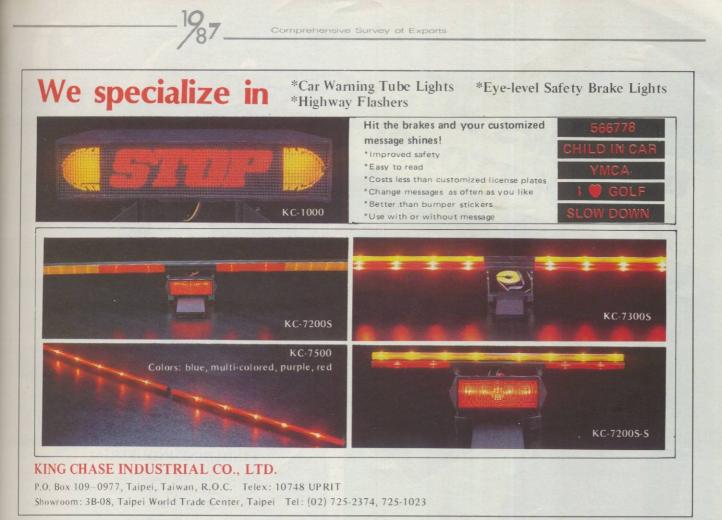
Our electroplating is superior, adding to the quality of our finished products.

*PC/XT and PC/AT are registered trademarks of International Business Machines Corp.

A Professional Manufacturer of Computer Cases TAIWAN FULMAR TRADING ENTERPRISE CO., LTD. P.O. Box 26-413, Taipei, Taiwan, R.O.C. Telex: 29523 FULMAR Tel: 771-9834, 771-9756

FM-8601

TALENT INTERNATIONAL INC. 1225 S. Los Angeles St. Los Angeles, CA 90015 Tel: (213) 748-4718



SWITCHING POWER SUPPLIES FOR IBM PC/XT & PC/AT

WE'LL BEAT ANY PRICE YOU CAN FIND

OEM WANTED

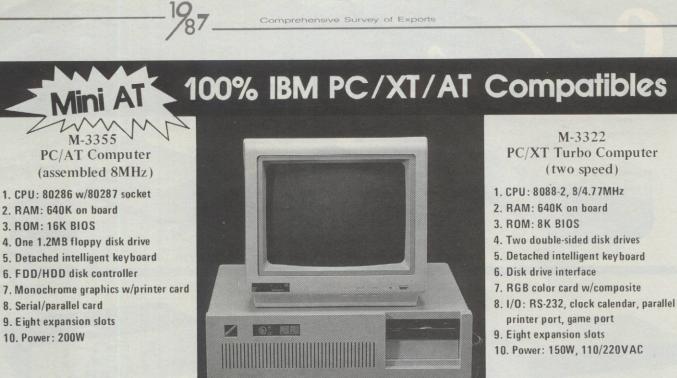
- *One year warranty.
- *Meets UL, CSA, VDE standards &
- FCC requirements.
- *100% burn-in test
- *Overload, voltage & short circuit protection.
- *Main parts are made in Japan.
- *Cooling DC fan will stop
- automatically by zero output voltage.

SSE-2200 200W

Manufacturer & SSE-1 Importer-Exporter SUPER SOURCE ENTERPRISE CO., LTD. P. O. Box 105-51, Taipei, Taiwan, R. O. C. Telex: 29616 SSECO No. 306, Dershing E. Rd., Shih-lin Dist., Taipei, Taiwan, R. O. C.

SSE-1150 150W

Fax: 886-2-834294 Tel: (02) 832-2662



All kinds of add-on cards for PC/XT/ATs available



P.O. Box 32-30, Taipei, Taiwan, R.O.C. Telex: 23125 MICROWAY Fax: 886-2-7814212 Tel: 771-4809, 721-8530

SUNVENT SOLAR POWERED EXTRACTOR VENTILATOR * Powered by natural light * Waterproof * Explosion-free

kits, radios, toys, musical ICs and more

* Solar battery chargers for Ni-Cd batteries, car batteries and more Customers' specifications welcomed.

Useful for: trailers/caravans, boats, greenhouses, lofts, RVs, portacabins, outhouses, stables, temporary buildings, kitchens, toilets, farm buildings, holiday homes, telephone booths, and many others Can be mounted on: glass, boat decks, caravan roofs, walls and more

SUNVENT prevents condensation, mildew, musty odours, and dampness without operating costs.

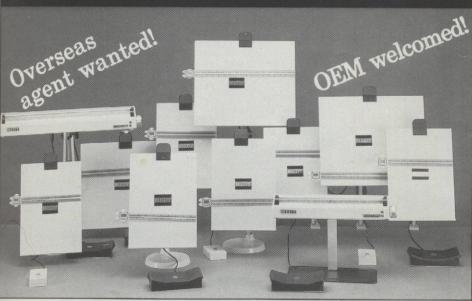


SOLATRON INCORPORATED P.O. Box 48-255, Taipei, Taiwan, R.O.C. Telex: 14208 CONTTEX Attn: SOLATRON Tel: (02) 761-4907

Fax: 886-2-7684889



Medy Organizes Your TIME Perfectly While You Are Typing" MEDY COPYHOLDERS WITH LCDs!

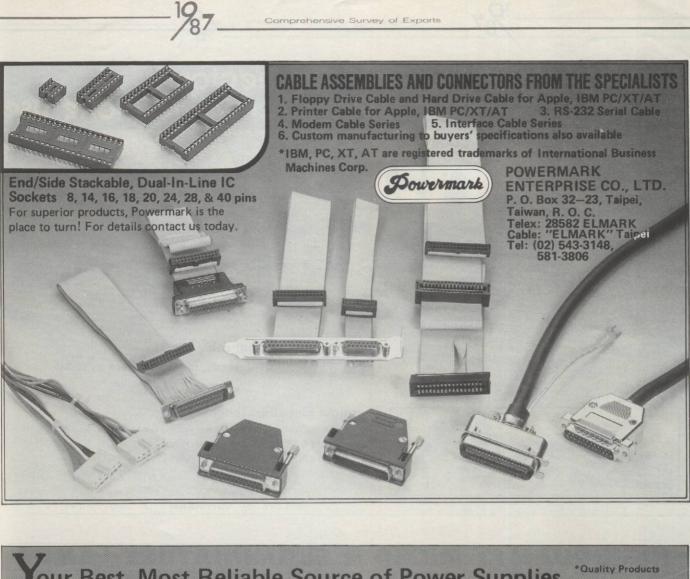


A wide selection of options:

- Gliding Ruler Models (Manual, Automatic*) *For automatic models, Medy offers foot
- Rolling Paper Models (Automatic* only)
- Flexible Arm or Weighted Base Suspension
- Letter, Legal, even Computer Printout Size
- Magnet-free: ideal for use around computers
- *For automatic models, Medy offers foo pedal control as well as the revolutionary desk-top finger touch control--the COMMANDER II.

MEDY

MEDY INTERNATIONAL CORP. No. 17, Lane 295, Fu-shin S. Rd., Section 1, Taipei 10640, Taiwan, R.O.C. P.O. Box 26–514 Telex: 20372 MEDYCORP Cable: "MEDYCORP" Taipei Tel: (02) 707-0377, 702-2888



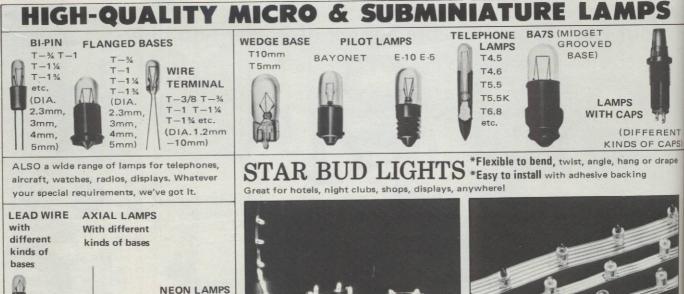


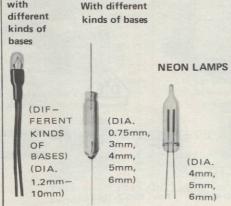
Cable Assemblies and Connectors for computer/audio/video/car/telephone use

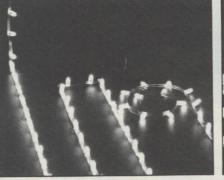
Comprehensive Survey of Exports

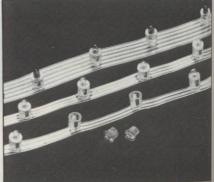
-1%7____











Contact Taiwan's leading manufacturer of micro and subminiature lamps at KUANG HUNG ELECTRONIC CO., LTD. No. 2, Hsin Hsing Rd., Hsichih, Taipei Hsien, Taiwan, R. O. C. Tel: (02) 641-8558-0, 641-4760 Telex: 32123 KHLAMP

Special Issue Order Form



Taiwan International Trade Sporting Goods Supplement

Taiwan International Trade expands its thorough coverage of the sporting goods industry in its biannual editions of the Taiwan International Trade Sporting Goods Supplement.

Publication dates: Spring and Fall, 1987 Price: US\$10 for both spring and fall issues

Machinery & Hardware Taiwan, Auto Parts Supplement

A new addition to our family of trade publications, the Auto Parts Supplement has its base in regular monthly issues of MHT. With this supplement, UPII intends to offer buyers yet more specialized trade information. Publication date: Spring and Fall, 1987 Price: US\$10 for both spring and fall issues

Machinery & Hardware Taiwan, Machinery Edition

MHT is working hard to meet the needs of both machinery producers in Taiwan and buyers of Taiwan's machinery abroad with special editions dedicated solely to machinery. Because of growing demand, we will publish three Machinery Editions in 1987.

Publication dates: May, September and November, 1987 Price: US\$10 for all three 1987 editions

Taiwan Gift, Toy and Stationery Buyer's Guide

This comprehensive publication provides you with detailed information on three important product lines. UPII gathers articles and advertisements to provide the in-depth coverage you need when sourcing from Taiwan. Publication date: October, 1987

Price: US\$10 per issue

Taiwan International Trade Comprehensive Survey of Exports

UPII already offers the most specialized trade information to be had in our many journals. Now we are bringing to you an accumulation of our vast materials on just about every line of products exported from Taiwan in one convenient publication.

Publication date: December, 1986 Price: US\$10 per copy

Form of Payment	Enclosed is US\$ in payment for the UPII publica-						
Bill me	tions checked below. (All prices include airmail postage.)						
Check enclosed		D Direct					
IS STRUCTURE OF LINKING	T.I.T.	M.H.T.	M.H.T.	Taiwan Gift,	T.I.T.		
A CONTRACTOR OF A	Sporting	Auto Parts	Machinery	Toy & Stationery	Comprehensive		
Charge to my	Goods	Supplement	Edition	Buyer's Buide	Survey of		
	Supplement			'87-'88	Exports		
VISA'							
	Please make checks or money orders payable to						
MusherCard	United Pacific International Inc. To insure that your order is properly processed, please complete						
	the following information:						
Amount	Company:						
	NO CP. LTD.			AND AND A CONTRACTOR	THERE DATE AND A REAL		
Card no	Name:	E CONTRACTO	F	osition:	THE PARTY OF MER		
Exp. date	Address:	S solar		NUTRES CONTRACTOR	WINGALES CHANNEL		
Signature	Telex:	cal solition	RE-INCLOSED CO	Tel:	WUAN YLPRECISE MA		
United Pacific International Inc. P.O. Box 81-417, Taipei, Taiwan, R.O.C. Telex: 28784 UNIPAINC Fax: 886-2-7169493							

GO TO THE HEAD OF THE CLASS

SP-100C With Carrying Case SP-100 Without Carrying Case





KA C

- 8

R

Special for CDs

New

Amplified Portable 2-way

Speaker Systems

- *Attractive, hi-tech amplified portable speaker system with carrying case.
- *Compatible with personal radios, cassette players and compact disc players.

*Built-in cassette compartments for tape storage.

As a professional manufacturer of sound systems, we can offer you more than 65 different models from which to choose. Our other products include three-way stereo headphones, stereo headphones with rotary volume controls, speaker systems, foldable headphones and minitype headphones. Of course, this list is incomplete. To learn about our full line of sound systems and headphones, contact us today. We look forward to hearing from you.



YUEH-IN CO., LTD.

No. 188, Lane 315, Jen Ai St., San Chung City, Taipei Hsien, Taiwan, R. O. C. P. O. Box 89–46, Taipei, Taiwan, R. O. C. Telex: 32107 YUENIN Cable: "YUENIN" Taipei Tel: (02) 985-5541–2, 980-7100