

# WS80-X, 8-BIT INTELLIGENT WORKSTATION

## From Intercontinental Micro Systems

The WS80-X is a Single Board Computer that is not BUS dependent. It converts a simple terminal into an 8-bit "Intelligent" Workstation. Available with 128K Bank Selectable RAM the WS80-X features 4 MHZ, Z80A (WS80-4) or 6 MHZ, Z80B (WS80-6) versions. The Workstation contains an on-board Local Area Network controller using Datapoint's ARCnet™ modified token passing protocol. A Coaxial Cable connector is provided for ease of installation. The WS80-X has been designed to operate as a Diskless Slave Processor within a multi-user network running under the TurboDOS™ Operating System's architecture. By adding a SASI Personality Board a powerful network File Server can be implemented. The SASI interface allows adding Floppy drives, Hard Disks, and Tape or Removable Cartridge Backup. Serial and Parallel peripherals such as printers or modems can also be added through the serial and parallel ports provided. With ICM's MicroNet™ architecture, the WS80 will interface with most 8-bit and 16-bit processors including other ICM hardware and Workstations. A low profile enclosure with power supply is also available. Look for ICM's 16-bit Workstation to be released 4th quarter of 1984.

### OTHER STANDARD FEATURES

Two Serial I/O Ports: One asynchronous and one asynchronous/synchronous. Two parallel I/O ports; eight data bits and two handshake lines per port. I/O or Interrupt driven. 2/4/8 Kbyte EPROM with monitor and network related software. Realtime Clock for TurboDOS Complex Slave operation. Complex Slaves allow local FLOPPY, Hard-disk or Tape storage to be implemented. 128 Kbytes (2 Switchable 64K banks) of Onboard Dynamic RAM. Software selectable baud rates. Fully Interrupt Driven. Compatible with ICM's LANS100 S-100 Bus ARCnet Controller. 16-bit CRC check and generation. No host processor overhead for link control.

### MicroNet™ NETWORK ARCHITECTURE

ICM's revolutionary MicroNet architecture uses the TurboDOS™ Operating System to build sophisticated, cost effective multi-user systems and networks. MicroNet provides the flexibility of building multi-user systems with S-100 BUS Structured Networks and ARCnet Local Area Networks. MicroNet and its TurboLAN drivers offers:

- Ability to network WS80 Workstations, S-100 Bus



Systems, IBM-PC's PC Compatibles, other 8-bit and 16-bit computers.

- Uses Master Processor/File Server such as ICM's CPZ-4800X Single Board Computer.
- Up to 4000 users per network with 255 nodes per network segment.
- Network self configures and efficiency increases as nodes are added.





