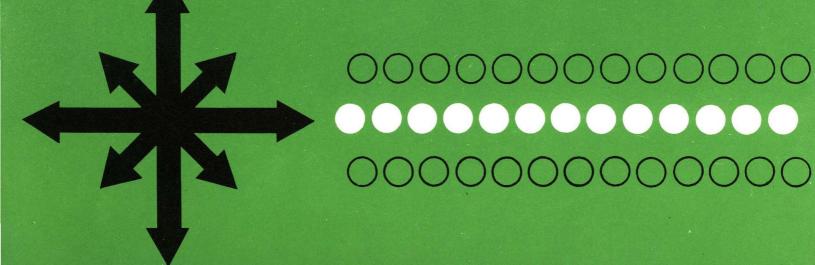




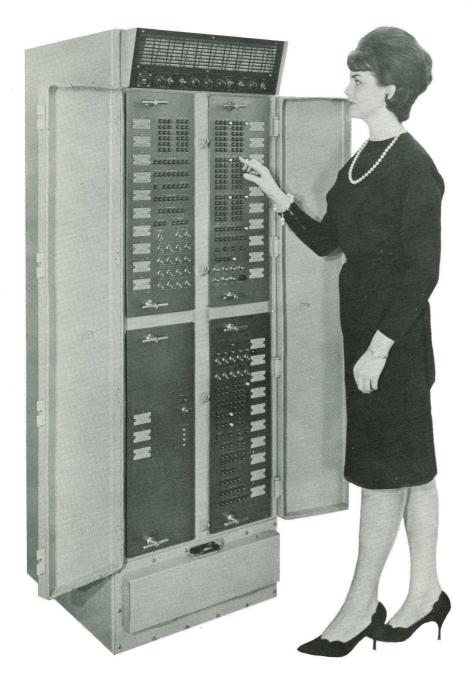
GENERAL DESCRIPTION



UNIVAC 1218

MILITARY COMPUTER

The Univac 1218 Military Computer is ideal for such challenging military applications as the following:



- Range Instrumentation
- Missile Guidance
- Missile Fire Control
- Simulation
- Logistics
- Message Switching
- Tactical Control
- Telemetry
- Digital Communications
- Data Reduction and Analysis
- Inventory and Scheduling
- Ground Support Checkout
- Navigation

PHYSICAL SIZE AND WEIGHT

Height: 72 inches Width: 22¾ inches Depth: 24½ inches Weight: 775 pounds

GENERAL INFORMATION

The Univac 1218 Military Computer is a versatile, stored program, medium scale, general purpose, digital computer specifically designed to provide high reliability under adverse operational environments.

In satisfying real-time computational requirements, the equipment availability is of vital concern. To further this end, reliability and maintainability have been made major design goals for the UNIVAC 1218 Computer. Based on past experience with the Naval Tactical Data System and other military programs, design evaluations, and laboratory tests, the calculated MTBF is in excess of 1000 hours. Maintainability is enhanced by the mechanical design which requires only front access to repair or replace printed circuit modules. Other equally important features include the front panel display of all registers, manual alteration of all registers, and switches for operation stepping, sequence stepping, or phase stepping, at a manually controlled variable clock speed. Test points from important circuit areas are available at thirty-four 104-pin test blocks on the front panels. Because the computer uses lowvoltage, solid-state components of proven life and reliability, it is compact and dependable. Only minimum site preparation and maintenance are required.

With its high internal operating speed, core memory cycle time of four microseconds, and eight flexible input/output channels, the Univac 1218 Computer is capable of processing large quantities of data in a real-time application. Arithmetic and input/output operations can be performed on the basis of a single length 18-bit word or a double length 36-bit word, if required for greater precision or for compatibility with other computers. The repertoire of 98 instructions allows complete programming freedom in mathematical and logical computations, as well as full control of the buffered input/output and of real-time, on-line operations. The conventional single address instructions, programmed by simple mnemonics, (i.e. abbreviated English in symbolic

terms) simplifies programming and does not require absolute coding. The computer features parallel transfers, one's-complement binary arithmetic, direct addressing, and program controlled automatic address or operand modification via eight memory-contained index registers.

The Univac 1218 Computer can be used with a large variety of local or remote peripheral devices as an independent complete general purpose system, or it can operate as a satellite pre-processor with larger systems to supply off-line, or associated online operations.

Univac support of 1218 Computer systems includes assistance in any of the following areas:

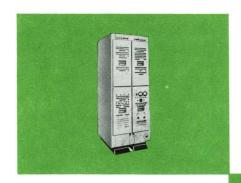
System Analysis – Total capability of a highly competent staff is available to users for problem analysis, equipment specification, mathematical modeling, or operational support for any application.

Programming — In addition to the software package supplied with the computer (i.e., a mnemonic assembler, polycode assembler, floating point package, function evaluation sub-routines, and program debugging aids, etc.) experienced, skilled programmers are available to assist customers to obtain maximum performance from the UNIVAC 1218 Computer.

Maintenance — The Univac Military Field Engineering department, comprising fully-trained field engineers and a complete support organization, provides spare parts and service throughout the world. This support begins with site planning and preparation and continues throughout installation, checkout, and normal operation, as required.

Training — A staff of well-trained instructors is available for conducting training courses for customer personnel. Classes covering programming, operation, and maintenance of all equipment can be provided at UNIVAC or at the customer's facility.

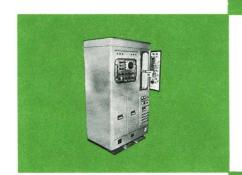
PERIPHERAL DEVICES



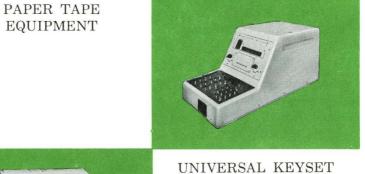
TELECOMMUNICATIONS TERMINAL

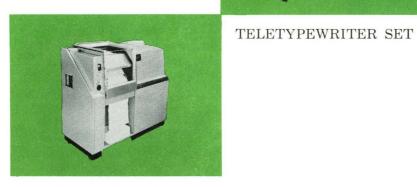


KEYSET CENTRAL



VIDEO PROCESSOR





LINE PRINTER



MAGNETIC TAPE SYSTEM

REPERTOIRE OF INSTRUCTIONS

37 MBK Modify B, U 12 5042 RSL Shift AL Right, k 40 SZ Store Zero, Y 8 5043 RSA Shift A Right, k 41 SZX Store Zero, Y+B 12 5044 SFA Scale A Left, k, SF	Time μ_{s}
04 SS Masked Substitute Y 8 66 NJU Jump AU Negative, Y 05 SSX Masked Substitute Y+B 12 67 NJL Jump AL Negative, Y 06 CM Masked Compare Y+B 12 70 ELK Enter AL, U 07 CMX Masked Compare Y+B 12 71 AKL Add U, 12 bits 10 EU Enter AU, Y+B 12 73 BJP B Jump, Y 11 EUX Enter AL, Y+B 12 73 BJP B Jump, Y 12 EL Enter AL, Y+B 12 75 SSR Store SR, Y 13 ELX Enter AL, Y+B 12 75 SSR Store SR, Y 14 LA Add Y+B, 18 bit 12 5011 INP Initiate Input Buff, k 15 LAX Add Y+B, 18 bit 12 5013 EXF Initiate Dutput Buff, k 16 LS Subtract Y+B, 18 bit 12 5013 EXF Initiate	4
05 SSX Masked Substitute Y+B 12 67 NJL Jump AL Negative, Y 06 CM Masked Compare Y 8 70 ELK Enter AL, U 07 CMX Masked Compare Y+B 12 71 AKL Add U, 12 bits 10 EU Enter AU, Y 8 72 SIC Store ICR, Y 11 EUX Enter AU, Y+B 12 73 BJP B Jump, Y 12 EL Enter AL, Y+B 12 75 SSR Store Address, Y 13 ELX Enter AL, Y+B 12 75 SSR Store SR, Y 14 LA Add Y+B, 18 bit 12 5011 INP Initiate Input Buff, k 15 LAX Add Y+B, 18 bit 12 5012 OUT Initiate Ext Function Buff, k 16 LS Subtract Y+B, 18 bit 12 5015 TIN Force Term Input, k 20 AA Add Y+B, 36 bit 12 5015 TIN F	4
06 CM Masked Compare Y 8 70 ELK Enter AL, U 07 CMX Masked Compare Y+B 12 71 AKL Add U, 12 bits 10 EU Enter AU, Y+B 12 73 BJP B Jump, Y 11 EUX Enter AL, Y+B 12 73 BJP B Jump, Y 12 EL Enter AL, Y+B 12 75 SSR Store Address, Y 13 ELX Enter AL, Y+B 12 75 SSR Store SR, Y 14 LA Add Y+B, 18 bit 12 5011 INP Initiate Input Buff, k 16 LS Subtract Y, 18 bit 8 5012 OUT Initiate Ext Function Buff, k 17 LSX Subtract Y+B, 18 bit 12 5015 TIN Force Term Input, k 20 AA Add Y+B, 36 bit 16 5016 TOU Force Term Levt Function Buff, k 21 AAX Add Y+B, 36 bit 16 5016 TOU Force Term Unty, k	4
07 CMX Masked Compare Y+B 12 71 AKL Add U, 12 bits 10 EU Enter AU, Y 8 72 SIC Store ICR, Y 11 EUX Enter AU, Y+B 12 73 BJP B Jump, Y 12 EL Enter AL, Y+B 12 75 SSR Store SR, Y 14 LA Add Y+B, 18 bit 8 76 RJP Return Jump, Y 15 LAX Add Y+B, 18 bit 12 5011 INP Initiate Input Buff, k 16 LS Subtract Y, 18 bit 8 5012 OUT Initiate Cut put Buff, k 17 LSX Subtract Y+B, 18 bit 12 5013 EXF Initiate Ext Function Buff, k 20 AA Add Y+B, 36 bit 12 5015 TIN Force Term Input, k 21 AAX Add Y+B, 36 bit 16 5016 TOU Force Term Ext Function, k 22 AS Subtract Y+B, 36 bit 16 5020 <t< td=""><td>4</td></t<>	4
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11	6
12 EL Enter AL, Y 8 74 SAD Store Address, Y 13 ELX Enter AL, Y+B 12 75 SSR Store SR, Y 14 LA Add Y, 18 bit 8 76 RJP Return Jump, Y 15 LAX Add Y+B, 18 bit 12 5011 INP Initiate Input Buff, k 16 LS Subtract Y+B, 18 bit 12 5013 EXF Initiate Output Buff, k 17 LSX Subtract Y+B, 18 bit 12 5013 EXF Initiate Output Buff, k 20 AA Add Y+B, 36 bit 12 5015 TIN Force Term Input, k 21 AAX Add Y+B, 36 bit 16 5016 TOU Force Term Output, k 22 AS Subtract Y, 36 bit 12 5017 TFN Force Term Ext Function, k 23 ASX Subtract Y+B, 36 bit 16 5020 SRM Set Resume ff (Intercomp) 24 MP Multiply Y+B 30-52	8
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15 LAX Add Y+B, 18 bit 12 5011 INP Initiate Input Buff, k 16 LS Subtract Y, 18 bit 8 5012 OUT Initiate Output Buff, k 17 LSX Subtract Y+B, 18 bit 12 5013 EXF Initiate Ext Function Buff, k 20 AA Add Y+B, 36 bit 12 5015 TIN Force Term Input, k 21 AAX Add Y+B, 36 bit 16 5016 TOU Force Term Output, k 22 AS Subtract Y, 36 bit 12 5017 TFN Force Term Ext Function, k 23 ASX Subtract Y+B, 36 bit 16 5020 SRM Set Resume ff (Intercomp) 24 MP Multiply Y 26-48 5021 SKI Skip Input Inact, k 25 MPX Multiply Y+B 30-52 5022 SKO Skip Ext Function Inact, k 26 DV Divide, Y+B 52 5024 WFI Wait for Interrupt 30 IR Indirect RJ, Y+B 16 5027 FSF Force Ext Function One Word, k	8
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22 AS Subtract Y, 36 bit 12 5017 TFN Force Term Ext Function, k 23 ASX Subtract Y+B, 36 bit 16 5020 SRM Set Resume ff (Intercomp) 24 MP Multiply Y 26-48 5021 SKI Skip Input Inact, k 25 MPX Multiply Y+B 30-52 5022 SKO Skip Output Inact, k 26 DV Divide, Y 48 5023 SKF Skip Ext Function Inact, k 27 DVX Divide, Y+B 52 5024 WFI Wait for Interrupt 30 IR Indirect RJ, Y 12 5026 FSO Force Output One Word, k 31 IRX Indirect RJ, Y+B 16 5027 FSF Force Ext Function One Word, k 32 EB Enter B, Y+B 16 5032 RXL Enable All Interrupts 33 EBX Enter B, Y+B 16 5032 RXL Enable Ext Interrupt Lockout 34 JP Jump, Y+B 8 5036 SXL Set Ext Interrupt Lockout 36 <t< td=""><td>4</td></t<>	4
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45 SLX Store AL, Y+B 12 5050 SKK Skip Console Key, k	6
46 SU Store AU, Y 8 5051 SNB Skip No Borrow	6
47 SUX Store AU, Y+B 12 5052 SOV Skip Overflow	6
51 IOR Inclusive OR, Y 8 5053 SNV Skip No Overflow	6
52 LPR Logical Product, Y 8 5054 SOP Skip L(AU,AL) Odd Parity	6
53 XOR Exclusive OR, Y 8 5055 SEP Skip L(AU, AL) Even Parity	6
54 IJR Indirect Jump (RIL), Y 8 5056 STP Stop Console Key, k 55 IJP Indirect Jump, Y 8 5057 SNR Skip Resume ff (Intercomp)	4
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70 Silving and Sil	6
71 Start Sta	6
Complement /	6
and taky k	4
63 VJL Jump AL Not Zero , Y 4 5073 ESR Enter SR , k	4

First with rugged mobile systems . . .

SOFTWARE

PROGRAMMING AIDS

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MAINTENANCE AIDS

Maintenance Manuals Diagnostic Routines

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