Small Business Computer Specifications

MANUFACTURER & MODEL	Wang 2200VS-B	Wang 2200VS-C	Wang 2200VS-E	Warrex Computer Centurion I	Warrex Computer Centurion I-A
DATA FORMATS					
Word length, bits	32	32	32	8	8
Decimal digits per word	NA	NA	NA	2	2
Bytes (characters) per word	4	4	4	1	1
Operand length, words	1, 2	1, 2	1, 2	1, 2	1, 2
Instruction length, words	Variable	Variable	Variable	1, 2, 3	1, 2, 3
CPU					
Model	Wang 2200VS-B	Wang 2200VS-C	Wang 2200VS-E	CC-201	CC-201
Add time, microseconds	NA	NA	NA	3.6 (16 bits)	3.6 (16 bits)
No. of programmable registers	20	20	20	16	16
No. of I/O ports on basic system and maximum	8, 16	8, 24	8, 32	4; 12	4; 12
INTERNAL STORAGE					
Type	MOS	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	64K	64K	256K	32K	32K
Maximum capacity, bytes	192K	256K	512K	64K	60K
Increment size, bytes	64K	64K	64K	8K, 16K, 32K	8K, 16K, 32K
Cycle time, microseconds	0.66	0.66	0.66	0.800	0.800
Access time, microseconds	NA	NA	NA	—	—
MASS STORAGE CAPABILITIES*					
Floppy disk drive	Std.; 318K bytes	Std.; 318K bytes	Std.; 318K bytes	Std.; 616 bytes	Std.; 616 bytes
Cartridge disk drive	Yes; 45MB	Yes; 45MB	Yes; 45MB	No	No
Pack disk drive	Yes; 72MB	Yes; 72MB	Yes; 72MB	No	No
Fixed-head disk/drum	No	No	No	No	No
KEYBOARD INPUT*					
Alphanumeric (typewriter) keyboard	Standard	Standard	Standard	Standard	Standard
10-key numeric keyboard	Standard	Standard	Standard	Standard	Standard
Full accounting keyboard	No	No	No	No	No
INPUT/OUTPUT DEVICES*					
Paper tape reader	No	No	No	No	No
Paper tape punch	No	No	No	No	No
Punched card reader	No	No	No	No	No
Punched card punch	No	No	No	No	No
Punched card reader/punch	No	No	No	No	No
Serial printer	Std.; 120 cps	Opt.; 120 cps	Opt.; 120 cps	Std.; 300 cps	Optional
Line printer	Opt.; to 600 lpm	Std.; to 600 lpm	Std.; to 600 lpm	No	Opt.; 125-600 lpm
Reel-to-reel tape drive	Opt.; 120 KBS	Opt.; 120 KBS	Opt.; 120 KBS	No	No
Cassette tape drive	No	No	No	No	No
Cartridge tape drive	No	No	No	No	No
Magnetic ledger card device	No	No	No	No	No
CRT	Std.; 24 x 80 char.	Std.; 24 x 80 char.	Std.; 24 x 80 char.	No	Std.; 24 x 80 char.
COMMUNICATIONS CAPABILITIES*					
Maximum no. of lines	3	3	3	4, 12	4, 12
Synchronous	Opt.; to 9600 bps	Opt.; to 9600 bps	Opt.; to 9600 bps	No	No
Asynchronous	No	No	No	Optional	Optional
Protocols supported	2780/3780	2780/3780	2780/3780	None	None
SOFTWARE SUPPORT					
COBOL	Yes	Yes	Yes	No	No
RPG	Yes	Yes	Yes	No	No
FORTRAN	No	No	No	No	No
BASIC	Yes	Yes	Yes	No	No
Assembler	Yes	Yes	Yes	Yes	Yes
Other programming languages	Procedure	Procedure	Procedure	CPL I	CPL I
Multiprogramming	Yes; 11 users	Yes; 16 users	Yes; 32 users	Yes	Yes
Language implemented in firmware	Partially	Partially	Partially	No	No
Operating system implemented in firmware	Partially	Partially	Partially	No	No
General accounting packages	Yes	Yes	Yes	Yes	Yes
Industry application areas	No	No	No	Acct'g., route acct'g., inventory control	Acct'g., route acct'g., inventory control
Data base management system	No	No	No	No	No
File access methods supported	Virtual indexed, random, seq., ind. seq.	Virtual indexed, random, seq., ind. seq.	Virtual indexed, random, seq., ind., seq.	Random, sequential	Random, sequential
Software separately priced	Yes	Yes	Yes	Some	Some
Technical help separately priced	No	No	No	Yes	Yes
PRICING & AVAILABILITY					
Purchase price of basic system, $	$38,000	$48,800	$110,800	Approx. $14,900	Approx. $20,000
Monthly rental of basic system, $	$1,140	$1,464	$3,324	Purchase/lease	Purchase/lease
Date of first U.S. delivery	December 1977	December 1977	December 1977	2nd qtr., 1977	2nd qtr., 1977
Number installed in U.S. to date	NA	NA	NA	600 (Centurion series)	600 (Centurion series)
COMMENTS					

*"Std." means the device is included in the price of the "basic system" as listed here.

Small Business Computer Specifications

MANUFACTURER & MODEL	Warrex Computer Centurion IIA	Warrex Computer Centurion IIB	Warrex Computer Centurion III	Warrex Computer Centurion VI
DATA FORMATS				
Word length, bits	8	8	8	8
Decimal digits per word	2	2	2	2
Bytes (characters) per word	1	1	1	1
Operand length, words	1, 2	1, 2	1, 2	1-256
Instruction length, words	1, 2, 3	1, 2, 3	1, 2, 3	1-7
CPU				
Model	CC-202	CC-203	CC-203	CC-206
Add time, microseconds	3.6 (16 bits)	3.6 (16 bits)	3.6 (16 bits)	2.2 (16 bits)
No. of programmable registers	16	16	16	16
No. of I/O ports on basic system and maximum	4; 12	4; 12	4; 12	4; 64
INTERNAL STORAGE				
Type	MOS	MOS	MOS	MOS (error corr.)
Capacity of basic system, bytes	32K	32K	32K	32K
Maximum capacity, bytes	60K	60K	60K	252K
Increment size, bytes	8K, 16K, 32K	8K, 16K, 32K	8K, 16K, 32K	8K, 16K, 32K
Cycle time, microseconds	0.800	0.800	0.800	0.600
Access time, microseconds	—	—	—	—
MASS STORAGE CAPABILITIES*				
Floppy disk drive	Std.; 616 bytes	Optional	Optional	Optional
Cartridge disk drive	No	Std.; 10.4-41.6MB	Std.; 10.4-41.6MB	Std.; 10.4-77.6MB
Pack disk drive	Std.; 10.4-41.6MB	Optional	Optional	Optional
Fixed-head disk/drum	No	No	No	No
KEYBOARD INPUT*				
Alphanumeric (typewriter) keyboard	Standard	Standard	Standard	Standard
10-key numeric keyboard	Standard	Standard	Standard	Standard
Full accounting keyboard	No	No	No	No
INPUT/OUTPUT DEVICES*				
Paper tape reader	No	Opt.; 120 cps	Opt.; 120 cps	Opt.; 120 cps
Paper tape punch	No	No	No	No
Punched card reader	No	Opt.; 300 cpm	Opt.; 300 cpm	Opt.; 300 cpm
Punched card punch	No	No	No	No
Punched card reader/punch	No	No	No	No
Serial printer	Optional	Std.; 175 cps	Optional	Optional
Line printer	Opt.; 125-600 lpm	No	Std.; 125-600 lpm	Std.; 125-600 lpm
Reel-to-reel tape drive	No	No	No	No
Cassette tape drive	No	No	No	No
Cartridge tape drive	No	No	No	No
Magnetic ledger card device	No	No	No	No
CRT	Std.; 24 x 80 char.	Std.; 24 x 80 char.	Std.; 24 x 80 char.	Std.; 24 x 80 char.
COMMUNICATIONS CAPABILITIES*				
Maximum no. of lines	4, 12	4, 12	4, 12	4, 64
Synchronous	No	No	No	No
Asynchronous	Optional	Optional	Optional	Optional
Protocols supported	None	None	None	None
SOFTWARE SUPPORT				
COBOL	No	No	No	No
RPG	No	No	No	No
FORTRAN	No	No	No	No
BASIC	No	No	No	No
Assembler	Yes	Yes	Yes	Yes
Other programming languages	CPL I	CPL I	CPL I	CPL I, CPL II
Multiprogramming	Yes	Yes	Yes	Yes
Language implemented in firmware	No	No	No	Partially
Operating system implemented in firmware	No	No	No	Partially
General accounting packages	Yes	Yes	Yes	Yes
Industry application areas	Acct'g., route acct'g., inven. control	Oil & gas acct'g., dist., banking, medical	Oil & gas acct'g., dist., banking, medical	Oil & gas acct'g., dist., banking, medical
Data base management system	No	No	No	No
File access methods supported	Random, sequential	Random, sequential	Random, sequential	Random, sequential
Software separately priced	Some	Some	Some	Some
Technical help separately priced	Yes	Yes	Yes	Yes
PRICING & AVAILABILITY				
Purchase price of basic system, $	Below $30,000	Below $36,000	Below $40,000	NA
Monthly rental of basic system, $	Purchase/lease	Purchase/lease	Purchase/lease	Purchase/lease
Date of first U.S. delivery	2nd qtr., 1977	May 1978	1974	1st qtr., 1979
Number installed in U.S. to date	600 (Centurion series)	600 (Centurion series)	600 (Centurion series)	0
COMMENTS				

*"Std." means the device is included in the price of the "basic system" as listed here.