

IBM 3725 Communication Controller

- Terminals can be attached to the 3725 either directly or via modems. Direct (modemless) attachment of terminals can be accomplished with LIC-1, LIC-3, LIC-4A, or LIC-4B and the corresponding direct attachment cable.

Table 2 shows the modem attachment and direct connection capabilities of the LICs.

The ICC also provides bit clocking when the attached external modem does not provide the clocking, as well as when direct attachment of the data terminal equipment is required. The ICC provides clocking for eight LICs (up to 32 lines) at 50, 110, 134.5, 200, 300, 600, and 1200 bps for operation with or without a modem. For direct attachment only (without a modem), the ICC provides clocking at speeds of 2400, 4800, 9600, 19.2K, and 56K bps for eight LICs.

Speeds up to 1200 bps are set at the time of control program generation and must match the speed of the terminal's internal clock. For speeds above 1200 bps, the terminal uses external clocking provided by the 3725; the speed is preset at 9600 bps at the factory but can be changed at installation to 2400, 4800, 19.2K, or 56K bps.

SOFTWARE

ADVANCED COMMUNICATIONS FUNCTION FOR NETWORK CONTROL PROGRAM (ACF/NCP) VERSION 2 FOR THE IBM 3725: ACF/NCP Version 2 is the basic operating system for the 3725 (either model, whether channel-attached or connected via communications link), and is supported by hosts operating under OS/VS1, OS/VS2 MVS, and DOS/VSE. The package is designed to support the enhanced operating features of the 3725, including new problem determination and error recording functions, improved system generation capabilities, storage for up to 1M bytes, and support for continued operation and controlled shutdown in failure situations. ACF/NCP Version 2 for the 3725 also supports Release 4 of the X.25 NCP Packet-Switching Interface licensed program. The planned availability of this software is the fourth quarter of 1983.

ACF/NCP Version 2 for the 3725 supports and communicates with the following host-resident programs: ACF/SSP Version 2 Release 1.1, ACF/TCAM Version 2 Release 4, ACF/VTAM Version 1 Release 3 (MVS only, with appropriate PTF), ACF/VTAM Version 2 (MVS, VS1, and VSE), EREP 1.5 (MVS/VS1), VSE/VM), and NPA-Host FDP Number 5798-CZR, NPDA Version 2, NCCF Release 2, and NLDLM.

ACF/NCP Version 2 for the 3725 also supports and communicates with these controller-resident programs: ACF/NCP Version 2 for the IBM 3725, EP for the IBM 3725 PEP, NTO Release 2 for the IBM 3725, X.25 NPSI Release 4, and ACF/NCP for the IBM 3705.

EMULATION PROGRAM FOR THE IBM 3725 (EP/3725): EP/3725 supports 3725 operation in 270X Emulation Mode. EP/3725 provides the same problem determination aids, error recording functions, and other features as ACF/NCP on the 3725. It provides support for up to six channel adapters, and can run concurrently with ACF/NCP Version 2 in PEP operation mode. It incorporates the S.W.I.F.T. PRPQ (5799-AQT), which assists users of EP or PEP to link directly to the network of the Society for Worldwide

Interbank Financial Telecommunication. EP/3725 will be available in the fourth quarter of 1983.

EP/3725 is designed for users of VSE/AF Release 3, OS/VS1 Release 7, VM/SP 2.1, MVS/370, and MVS/XA. EP/3725 supports the following access methods: BTAM, BTAM-ES, BTAM-SP, ACF/TCAM, and RTAM.

ACF/NCP Version 2 for the 3725 and EP/3725 are generated using the ACF/System Support Programs (ACF/SSP) Version 2 Release 1.1 licensed program (5735-XXA), which was announced with the 3725. Designed to operate only in the IBM 3725, neither will operate in the IBM 3704 or 3705. Coexistence of 270X, 370X, and 3725 in a common host environment, however, is supported.

ACF/SYSTEM SUPPORT PROGRAMS (ACF/SSP) VERSION 2 RELEASE 1.1: ACF/SSP provides system generation and utility functions for users of ACF/NCP Version 2 for the 3705, ACF/NCP Version 2 on the IBM 3725, and EP on the IBM 3705 and EP/3725. ACF/SSP Version 2 Release 1.1 requires at least one locally attached IBM 3705-II or 3705-80 meeting the storage requirements of ACF/NCP Version 2 or EP for the 3705 or one locally attached 3725 meeting the storage requirements of ACF/NCP Version 2 or EP/3725 for the 3725. It is supported under VSE/AF Release 3, OS/VS1 Release 7, MVS/370, and MVS/XA with the appropriate VTAM or TCAM release.

X.25 NCP PACKET SWITCHING INTERFACE PROGRAM: X.25 NPSI provides users of ACF/NCP/VS the facility to use 3705-II or 3705-80 Communications Controllers to access public data networks complying with CCITT X.25 standards. The package is Telenet-certified. This program supports packet sequence numbering of up to 128, with packet length section of up to 4096 characters. It supports SNA network node interconnection and protocol conversion for non-SNA equipment. Within the program is a subset of X.29 allowing communications with asynchronous X.28 devices (TTY). It also supports the X.21 LICs.

NETWORK TERMINAL OPTION (NTO): NTO is a software product which is loaded in the 3705 and extends the SNA environment to include support for several common asynchronous terminals. These include the IBM 2740 and 2741 terminals on either switched or leased lines, and Teletype models 33/35 on switched lines only.

PRICING

All 3725 components can be acquired by purchase or month-to-month rental. The 3725 is offered under Plan D of IBM's Lease and Rental Agreement (LRA). This plan calls for an initial period of three months, during which IBM provides maintenance service 24 hours per day 7 days per week at no additional charge. After the initial period, maintenance service is available for an Annual Maintenance charge, which specifies a maximum number of hours of service per month. If the maximum is exceeded, an Additional Monthly Maintenance Charge Rate (AMMCR) is applied.

Purchase credit for rental payments made under LRA can be accrued up to a maximum of 65 percent of the total purchase price.

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		Monthly Rental	Purchase	Annual Maint.	AMMCR
3725 Communication Controller					
	Model 1 (512K bytes, up to 96 lines)	#3,260	\$75,000	\$2,556	\$213
	Model 2 (512K bytes, up to 24 lines)	2,630	60,500	2,280	190
	3726 Communication Controller Expansion (up to 160 lines; attaches to Model 1 only)	1,390	32,000	480	40
#1561	Channel Adapter	295	6,750	96	8
#4666	Internal Clock Control	65	1,500	24	2
	Line Attachment Bases—				
#4771	Type A	825	19,000	192	16
#4772	Type B	1,150	26,400	324	27
	Line Interface Couplers—				
#4911	Type 1	115	2,600	24	2
#4921	Type 2	130	3,000	24	2
#4931	Type 3	130	3,000	24	2
#4941	Type 4A	115	2,600	24	2
#4942	Type 4B	130	3,000	24	2
#7100	Storage Increment (256K bytes)	190	4,375	228	19
#8320	Two-Processor Switch	175	4,000	36	3
#3602	Line Increase Feature on 3726	370	8,500	168	14
3727 Operator Console Model 70—					
	Logic Unit	160	2,390	324	27
#3255	Display	0	352	0	0
#4655	Keyboard	0	420	0	0

		Initial Charge		Monthly Charges		
Software		Basic License	DSLO License	Basic License	DSLO License	Additional Licensed Program Support
5735-XX9	ACF/NCP Version 2 for IBM 3725	\$1,080	\$810	\$216	\$162	\$59
5735-XXB	EP/3725	1,200	900	225	169	56
5735-XXA	ACF/SSP Version 2 Release 1.1	420	315	76	57	35
5688-981	X.25 NPSI Release 4	Contact vendor		207	154	33
5735-XX7	NTO for IBM 3725	Contact vendor for pricing				