

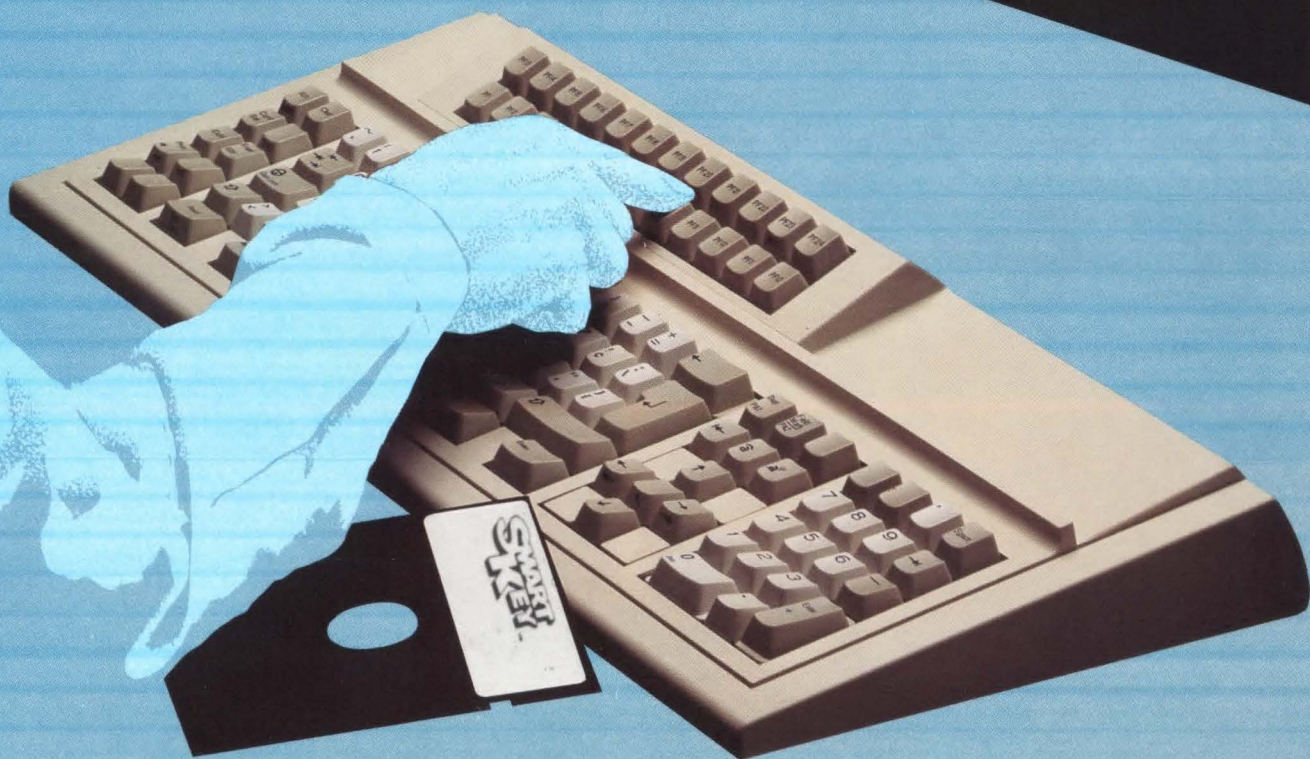
PC Compatible 3270 Style



126 KEY ENHANCED KEYBOARD

Features an extra cluster
of 24 function keys.

Execute sophisticated commands
faster... with fewer keystrokes



PC COMPATIBLE 3270 STYLE ENHANCED KEYBOARD

...available with SmartKey® 5.0 Keyboard Enhancement Software

More keys than the standard IBM 3270 PC keyboard...including an extra cluster of 24 function keys above the main key array. Redefine and customize the keyboard with SmartKey software to execute sophisticated commands faster, with fewer keystrokes. Sends IBM PC synchronous format. Responds to handshake and reset signals from the IBM PC and XT. With hardware watchdog circuit for extra ESD protection.



STANDARD FEATURES

- Sends IBM PC synchronous format. Responds to handshake and reset signals from the IBM PC and XT.
- Proven Cherry MX full travel gold crossbar contact configuration key module.
- Full N-key rollover with auto-repeat, chassis ground.
- Low profile—29mm (1.133") from enclosure base to center point at home row keycap top.
- Keyboard micro with 16-deep FIFO; scanning pause in the event that FIFO is filled.
- Hardware watchdog circuit for extra ESD protection.
- TTL output and input signals.
- Open collector TTL output driver with 4.7 k-ohm pull-up.
- 6-ft. mylar shielded coiled cord with 5-pin circular DIN connector. (Compatible with IBM PC and XT systems.)
- Input power: +5VDC @ 175 mA typ., 275 mA max.
- Tested and approved for FCC Class B requirements.

KXN5-C654
Enhanced Keyboard
(with SmartKey KXN5-C658)



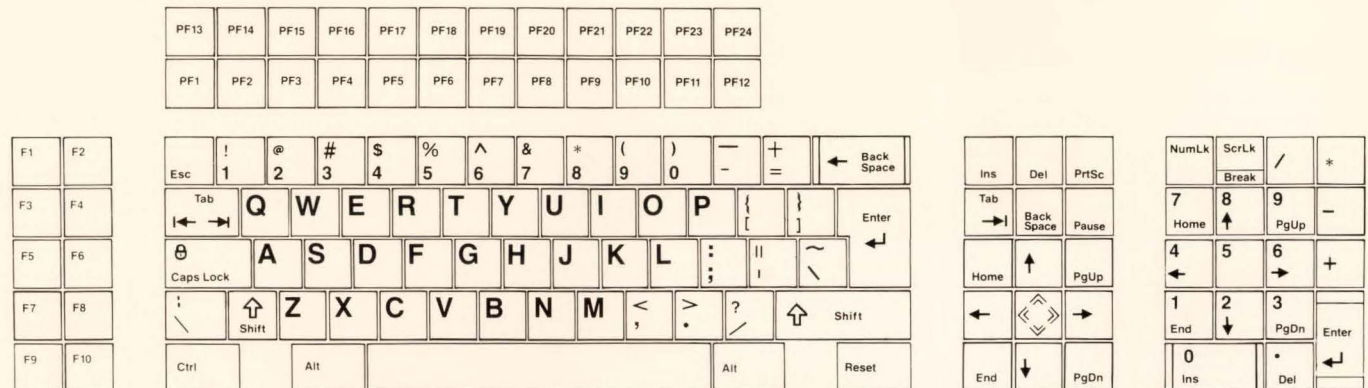
FACTORY INSTALLED OPTIONS

- Jumper options for 600, 2400 and 9600 Baud asynchronous output; jumper option to cancel auto repeat.
- +5 volt regulator for connecting keyboard to a system that can provide 12 volts at $\pm 20\%$.
- Optional sounder installation available.

SmartKey is a registered trademark
of Software Research Technologies.

IBM is a registered trademark of International
Business Machines Corporation.

3270 PC KEYBOARD LAYOUT



IMPORTANT NOTICE—FCC COMPLIANCE

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. The assembly has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference in radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the computer with respect to the receiver.

- Move the computer away from the receiver.

- Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user must consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems."

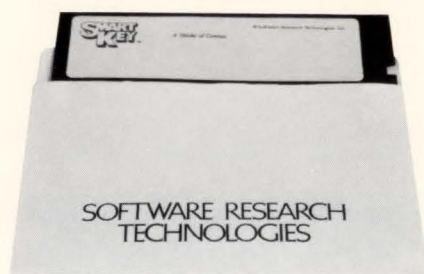
This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Stock No. 004-000-00345-4.

24 DEDICATED KEYS...WITH SmartKey 5.0

PF13	PF14	PF15	PF16	PF17	PF18	PF19	PF20	PF21	PF22	PF23	PF24
PF1	PF2	PF3	PF4	PF5	PF6	PF7	PF8	PF9	PF10	PF11	PF12

SmartKey SOFTWARE

- Allows user to redefine and customize the keyboard.
- Define special 24 function keys to user needs.
- Simplify complex commands by defining single key macros.
- Customize keyboard to your favorite software.



OUTPUT CODES

The Cherry KXN5-C654 Keyboard (without SmartKey) KXN5-C658 (with SmartKey) sends UP/DOWN codes with repeat being a series of DOWN codes. A DOWN code has a bit 7 equal to 0. An UP code a bit 7 equal to 1. The first seven bits (0-6) are used to identify the key position being pressed. Keycodes have a 10 millisecond minimum interval.

60	61	62	63	64	65	66	67	68	69	6A	6B
54	55	56	57	58	59	5A	5B	5C	5D	5E	5F

3B	3C
3D	3E
3F	40
41	42
43	44

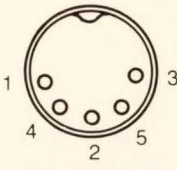
01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E
0F	10	11	12	13	14	15	16	17	18	19	1A	1B	1C
3A	1E	1F	20	21	22	23	24	25	26	27	28	29	
2B		2C	2D	2E	2F	30	31	32	33	34	35	36	
1D		38	39						38		6E		

52	53	2A 37
0F	0E	1D 45
47	48	49
4B	1D	4D
4F	50	51

45	46	35	37
47	48	49	4A
4B	4C	4D	4E
4F	50	51	1C
	52	53	

CONNECTOR PIN ASSIGNMENT

Key Total Travel 0.150 in. (3.8 mm)
Key Actuating Force 2.0 oz. (57 gm)

5 Pin 180° DIN Connector		
PIN	FUNCTION	 <p>FRONT VIEW</p>
1	I/O CLOCK LINE	
2	I/O DATA LINE	
3	RESET (Active low)	
4	GROUND	
5	+5 VOLTS	
SHELL	CHASSIS GROUND	

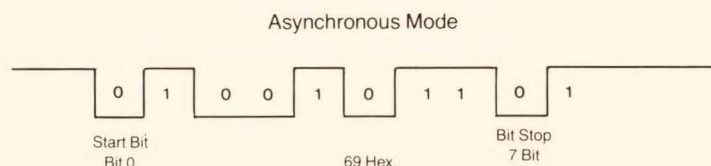
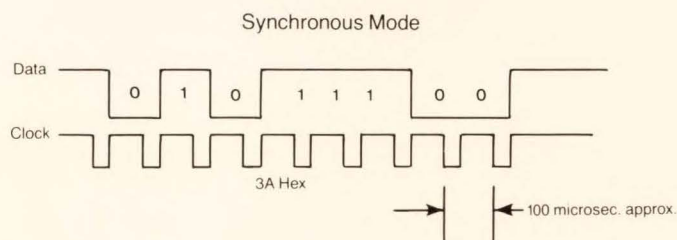
JUMPER SELECT CHART

Jumpers Used for Performance Options

NOTE: W3 is a Jumper wire. D12, D13 and D14 are Diode Jumpers. X means "Don't Care".

	W3	D12	D13	D14
IBM-PC SYNCHRONOUS	IN	IN	IN	X
600 BAUD ASYNCHRONOUS	OUT	IN	IN	X
2400 BAUD ASYNCHRONOUS	X	OUT	IN	X
9600 BAUD ASYNCHRONOUS	X	X	OUT	X
ALL KEYS AUTO-REPEAT	X	X	X	IN
NO KEYS REPEAT	X	X	X	OUT

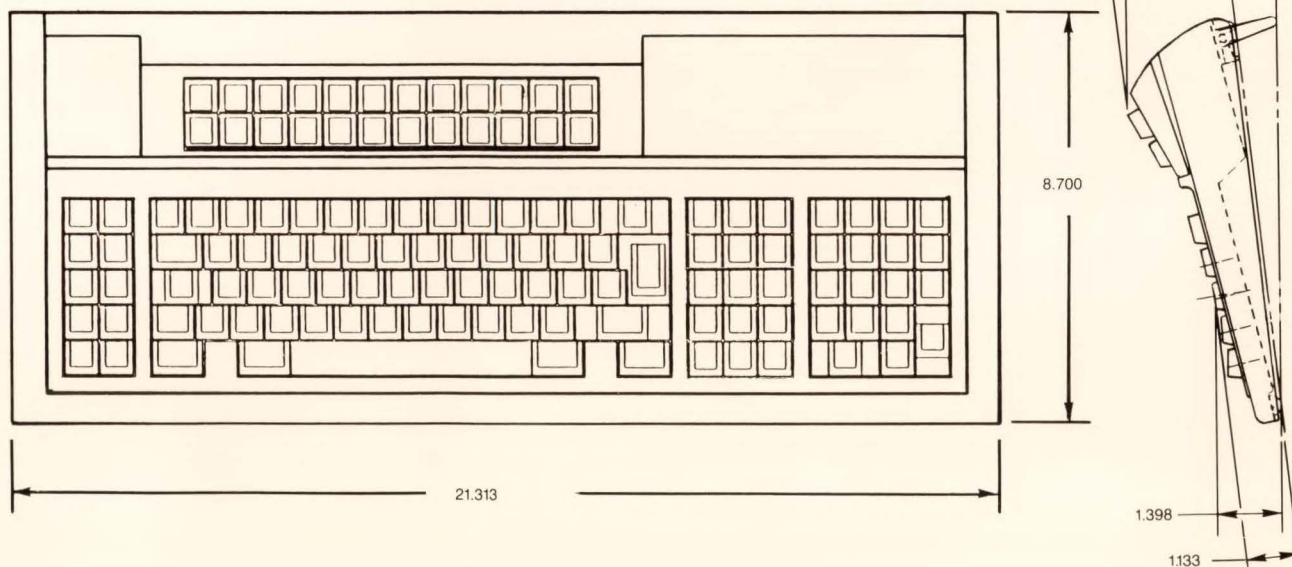
I/O TIMING DIAGRAMS



If host system holds data line low, no keycodes will be sent.
If host system holds clock line low for 30-40 microsec., keyboard will reset.

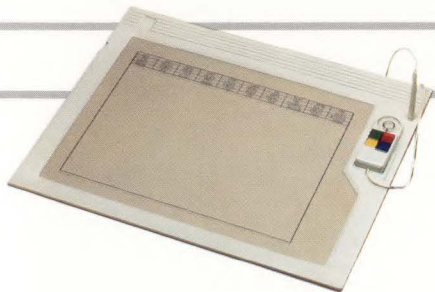
HOUSING FEATURES

- Case molded of tough, high impact, polystyrene with ultraviolet stabilizer.
- Flame retardant (UL94VO).
- Solid metal bottomplate for rigidity, stability.
- Swing out non-skid legs adjust level to 15°.
- Pencil and document holder ledge.
- Color and texture matched to IBM PC product line.



CHERRY PERIPHERALS

To Make Your IBM PC do more...for less



DRAW

Graphic Tablet

Create drawings and graphics with your IBM PC or compatible. Software compatible with the top CAD programs.



WALK

Infrared Wireless Keyboard

Operates up to 40 feet from the terminal...includes IR Receiver for IBM PC interface. Plugs 'n plays directly with IBM PCjr.



EXECUTE

126 Key Enhanced Keyboard

PC compatible 3270 style. Features extra cluster of 24 function keys. Execute commands faster...with SmartKey software.

CHERRY  **the peripheral people**

CHERRY ELECTRICAL PRODUCTS CORP. 3600 Sunset Avenue, Waukegan, IL 60087 • 1-312-360-3500