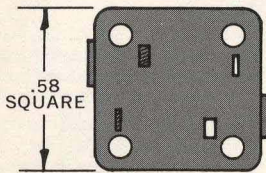# CHERRY electronic data entry KEYBOARDS

Key Module and Keyboard Specifications

A CHOICE OF TWO RELIABLE CHERRY KEY MODULES

LOW PROFILE KEY WITH GOLD "CROSSPOINT" CONTACTS

.58 SQUARE

.715

.47

.715 SQUARE

.781

.085

.47

.063 panel mounting thickness

Press-on plunger accepts keycap

.685

.187 terminal length

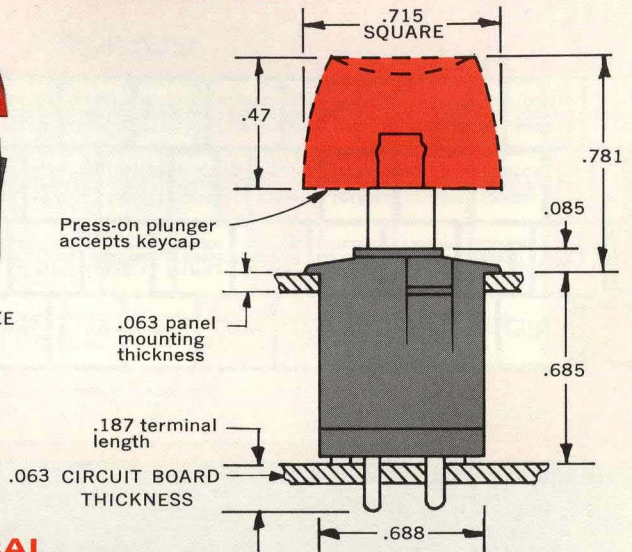.063 CIRCUIT BOARD THICKNESS

.688

ACTUAL SIZE

261-0100 (Single Form A) uses two terminals
262-0100 (Double Form A) uses all four terminals, including shaded terminals.
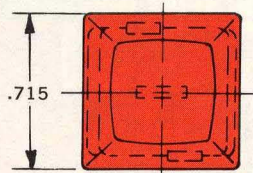
Gray exterior with white legend. Special colors readily available. Order by commercial color number.
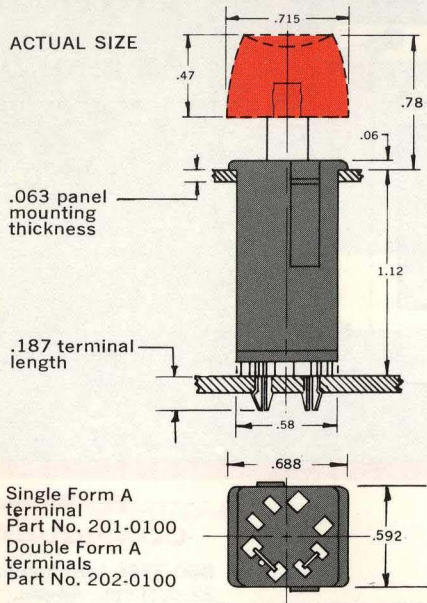
TWO-SHOT MOLDED KEYCAP (OPTIONAL)

HERMETICALLY SEALED REED SWITCH KEY

ACTUAL SIZE

.715

.47

.78

.06

.063 panel mounting thickness

1.12

.187 terminal length

.58

.688

.592

Single Form A terminal Part No. 201-0100
Double Form A terminals Part No. 202-0100

MECHANICAL SPECIFICATIONS for Gold "Crosspoint" and Reed Switch Key Modules

Operating Force...2½ oz. ± ½ oz.
Pretravel...093 ± .031
Total Travel...188 max.
Key Module Case Material........................Thermoplastic (Nylon)
External Terminal.................................Tin Plated Brass Alloy
Temperature
  Operating...0°C/60°C
  Storage...—35°C/65°C

ELECTRICAL SPECIFICATIONS

for Gold "Crosspoint" Key Module

Contact Rating (Form A contacts)
  DC Resistive.............3W max.
  AC Resistive...........3VA max.
  Current.............0.125 amp. max. switching
                         0.5 amp. max. carry
  Voltage................28V max.
Bounce.................2 millisec max. (typically 300 microseconds)

Initial Contact
Resistance.......200 milliohms max. (typically 25 milliohms)

for Reed Switch Key Module

Contact Rating (Form A contacts)
  DC Resistive.............7W max.
  AC Resistive...........12VA max.
  Current.........0.25 amp. max.
  Voltage.................28V max.
Bounce...............1 millisec max.

Initial Contact
Resistance.......250 milliohms max.

CHERRY ®

B80-3766 CHERRY 66-KEY ASCII TRI MODE
LEGEND FORMAT

Keyboard legend (symbol / key):

Row 1: DEL | !/1 | "/2 | #/3 | $/4 | %/5 | &/6 | '/7 | (/8 |)/9 | Ø/0 | =/- | }/] | \ | @   CL ⬆ XMIT

Row 2: CTRL | DC1/Q | ETB/W | ENQ/E | DC2/R | DC4/T | EM/Y | NAK/U | HT/I | SI/O | DLE/P | DEL/- | —/\ | ~   ⬅ HOME ➡

Row 3: LOCK | SOH/A | DC3/S | EOT/D | ACK/F | BEL/G | BS/H | LF/J | VT/K | FF/L | +/; | */: | ¦   SEND ⬇ PRINT

Row 4: SHIFT | SUB/Z | CAN/X | ETX/C | SYN/V | STX/B | SO/N | CR/M | </, | >/. | ?// | SHIFT   TAB CSR NEW LINE

Meets ANSI X4. 14-1971
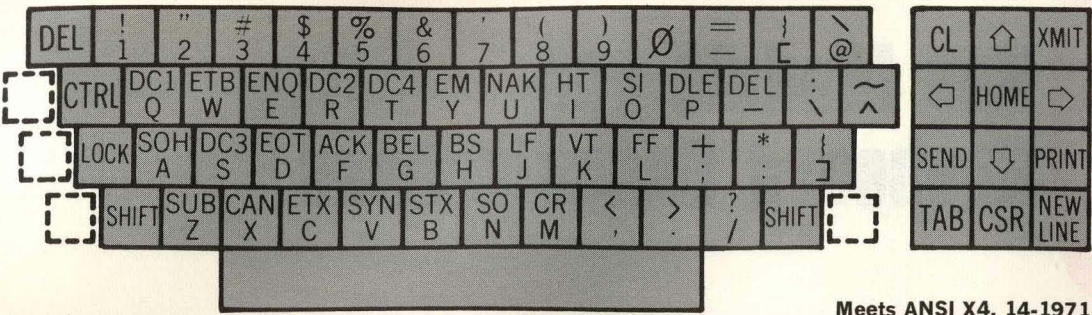
LEGEND FORMATS

B80-3766 with 66 keys, including 12 Function keys at right hand side. Provisions are made in cover plate for addition of up to four additional key modules (dotted lines). Generates full 128 symbol ASCII character set; can be modified for special applications.

B70-4753 with 53 keys is similar to ASR 33. Standard communications configuration generates ASCII. Can be modified for special applications.

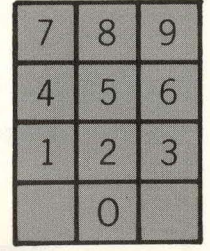**B65-1712** with 12 keys generates straight output.
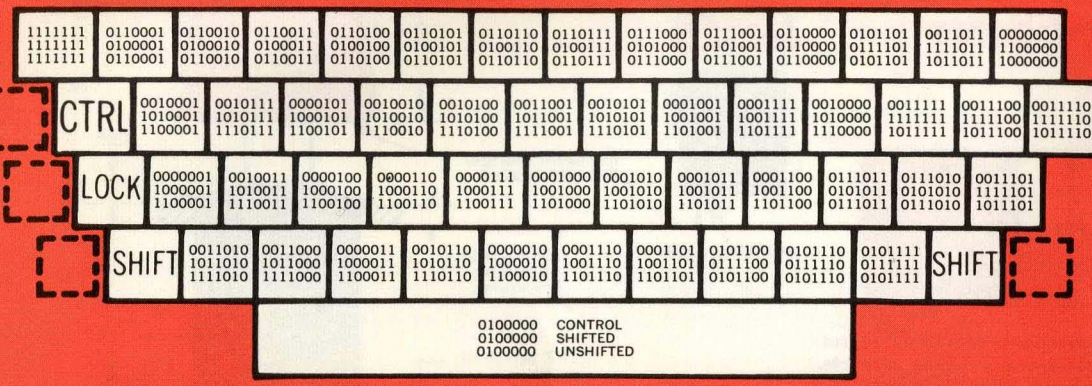
B70-4753 CHERRY 53-KEY ASCII QUAD MODE
LEGEND FORMAT

Row 1: !/1 | "/2 | #/3 | $/4 | %/5 | &/6 | '/7 | (/8 |)/9 | Ø/0 | */: | =/- | PAGE

Row 2: ALT MODE | Q (WRU) | W | E (TAPE) | R (TAPE) | T | Y | U | I | O | P (@) | LINE FEED | RETURN

Row 3: CTRL | A | S (X Off) | D (EOT) | F | G | H | J | K | L ([) | FORM +/; | RUB OUT | RESET | BREAK

Row 4: SHIFT | Z | X | C | V | B | N (^) | M (]) | </, | >/. | ?// | SHIFT

B65-1712 CHERRY 12-KEY NUMERIC
LEGEND FORMAT

7	8	9
4	5	6
1	2	3
0		

B80-3766 OUTPUT

(Grid of 7-bit codes for UNSHIFTED, SHIFTED, CTRL, LOCK and SHIFT rows)

Bottom summary:
0100000 CONTROL
0100000 SHIFTED
0100000 UNSHIFTED

CODED OUTPUT

All 7-bit output codes shown are, reading from left to right, **most** significant to **least** significant (765 4321).
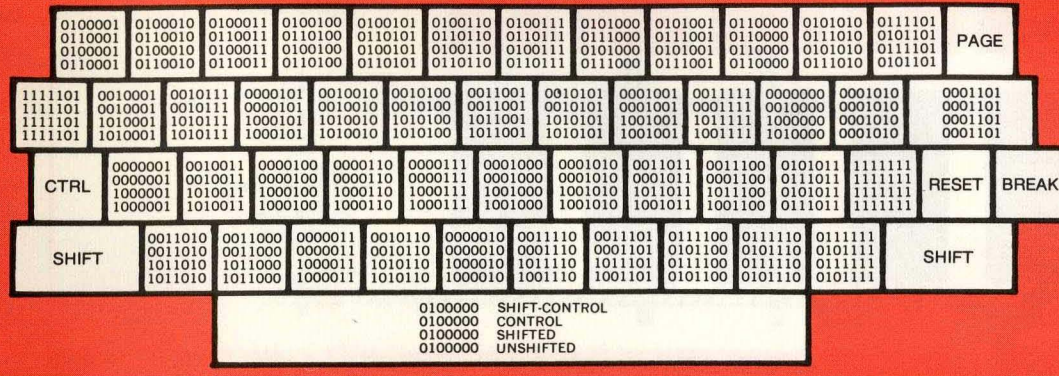
B80-3766—The Control key of this keyboard has precedence over the Shift key to produce tri-mode.

NOTE:
The 12-key Function section of the B80-3766 keyboard is not encoded and so is not included in the coding diagram at left.

The 12-key Function section has Normally Open switches that may be represented similarly to the diagram of the 12-key unit to the far right of this section.
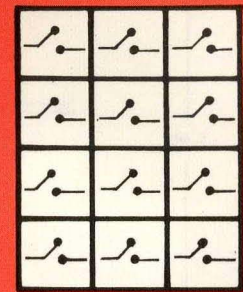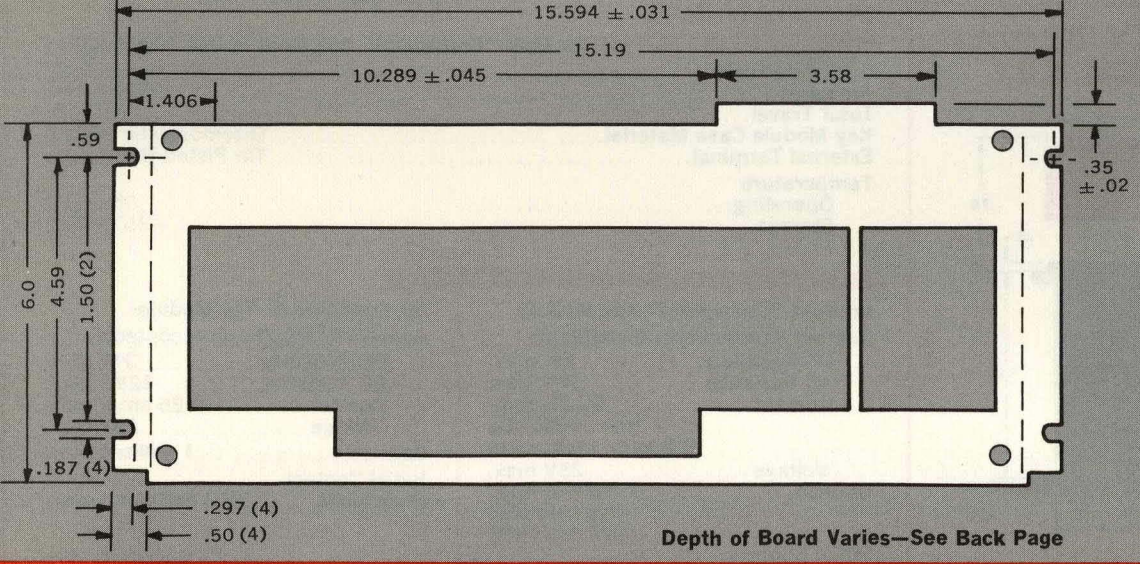
B70-4753 OUTPUT

(Grid of 7-bit codes for UNSHIFTED, SHIFTED, CTRL rows)

Bottom summary:
0100000 SHIFT-CONTROL
0100000 CONTROL
0100000 SHIFTED
0100000 UNSHIFTED

B65-1712 OUTPUT

NOTE: B65-1712 is non-encoded. Diagram shows Normally Open key switches.

B80-3766

Dimensions: 15.594 ±.031; 15.19; 10.289 ±.045; 3.58; 1.406; .59; .35 ±.02; 6.0; 4.59; 1.50 (2); .187 (4); .297 (4); .50 (4)

Depth of Board Varies—See Back Page

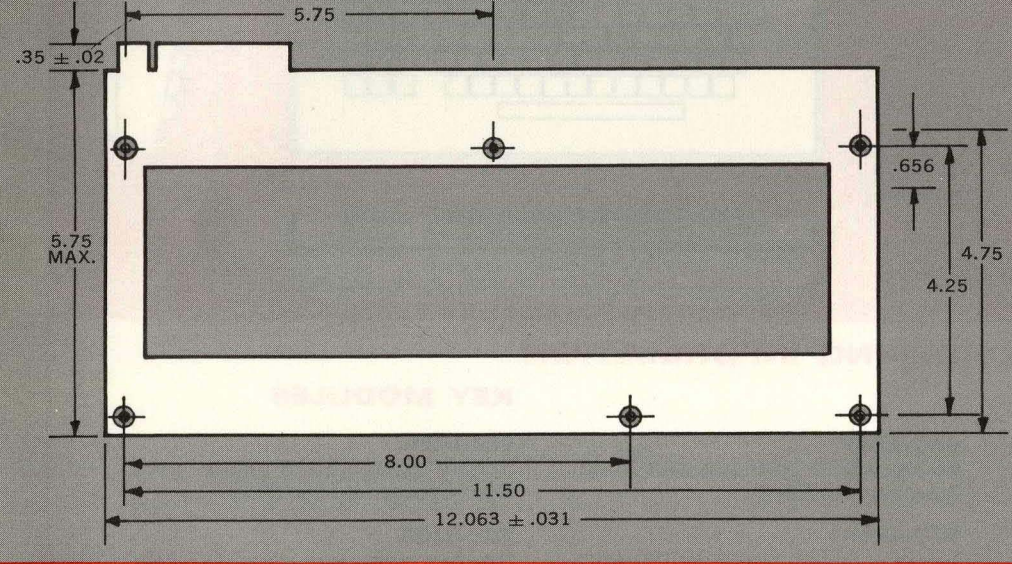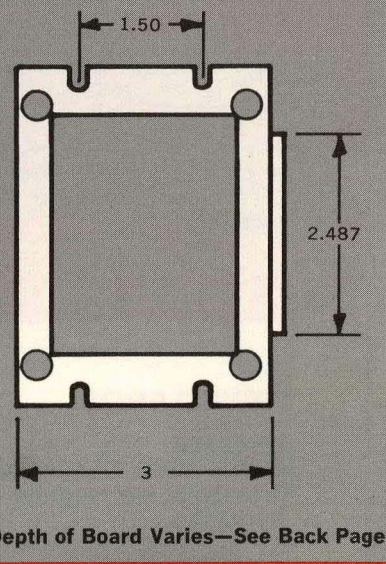## PANEL CUTOUT and PC BOARD SIZE

Depth from top of faceplate to bottom of printed circuit board varies for each keyboard, depending on the type of key module used. See last page of this brochure.
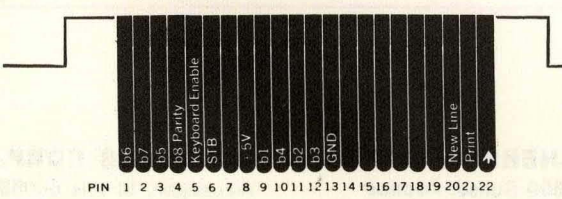
B70-4753

Dimensions: 5.75; .35 ±.02; .656; 4.75; 4.25; 5.75 MAX.; 8.00; 11.50; 12.063 ±.031

B65-1712

Dimensions: 1.50; 2.487; 3

Depth of Board Varies—See Back Page

B80-3766 HAS TWO SIDED TERMINAL

VIEWED FROM TOP OF PRINTED CIRCUIT BOARD

PIN 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

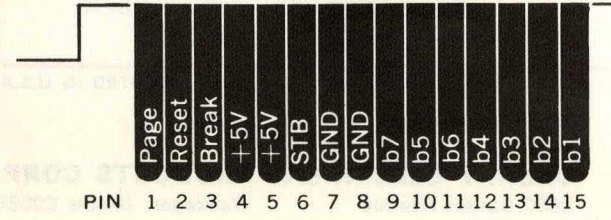|		
Reverse of Pin 1...b6	Reverse of Pin 12...b3
Reverse of Pin 2...b7	Reverse of Pin 13...GND
Reverse of Pin 3...b5	Reverse of Pin 14...CL
Reverse of Pin 4...b8 PARITY	Reverse of Pin 15...◄
Reverse of Pin 5...KYBD. ENABLE	Reverse of Pin 16...SEND
Reverse of Pin 6...STB	Reverse of Pin 17...TAB
Reverse of Pin 7...(blank)	Reverse of Pin 18...▲
Reverse of Pin 8...+5V	Reverse of Pin 19...HOME
Reverse of Pin 9...b1	Reverse of Pin 20...▼
Reverse of Pin 10...+5V	Reverse of Pin 21...CSR
Reverse of Pin 11...b2	Reverse of Pin 22...XMIT

TERMINAL CONFIGURATION

B80-3766 terminal has standard 22-position, 44-pin, 1/16" thick Card Edge Connector (Cinch #251-22-30-340 or #215-22-30-341; Continental #600-30-3PCDG22; Methode #84-7044).

B70-4753 terminal has standard 15-pin Card Edge Connector. Plated through for redundancy.

B65-1712 terminal has standard 15-pin Card Edge Connector (including two pins that represent blank keys at right and left hand side of bottom row of keys).
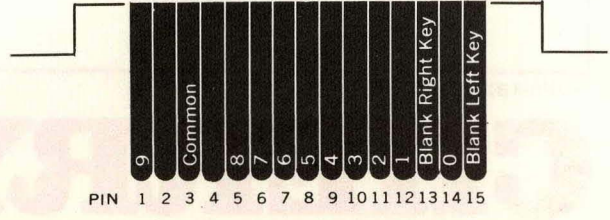
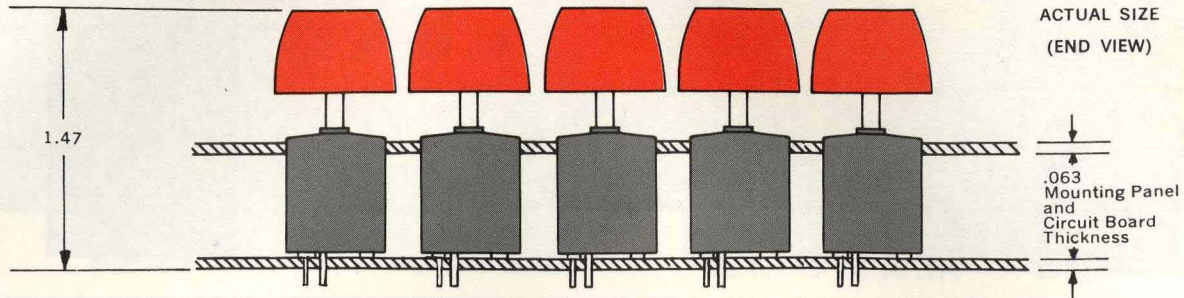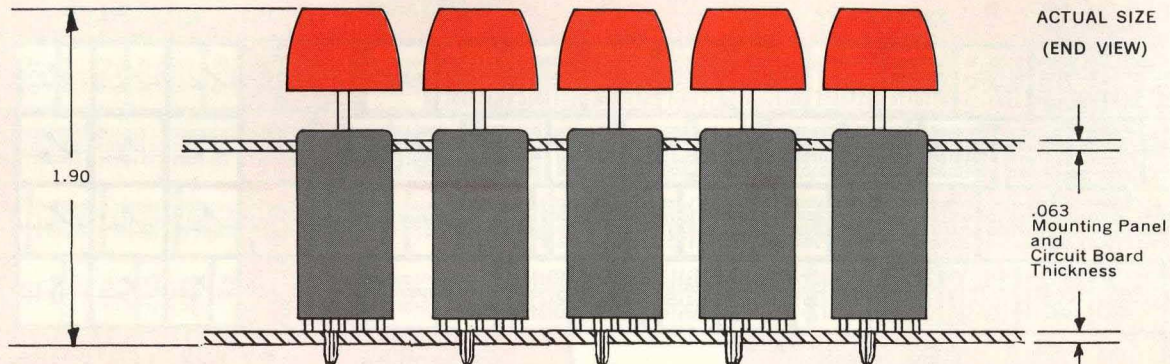# B70-4753 TERMINAL

VIEWED FROM TOP OF PRINTED CIRCUIT BOARD

Page	Reset	Break	+5V	+5V	STB	GND	GND	b7	b5	b6	b4	b3	b2	b1
PIN 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

B65-1712 TERMINAL

VIEWED FROM TOP OF PRINTED CIRCUIT BOARD

9	Common	8	7	6	5	4	3	2	1	Blank Right Key	0	Blank Left Key
PIN 1	2	3	4	5	6	7	8	9	10 11	12	13	14 15

FOUR ROWS OF KEYS PLUS SPACER BAR WITH LOW PROFILE GOLD CROSSPOINT KEY MODULES

1.47

ACTUAL SIZE
(END VIEW)

.063
Mounting Panel
and
Circuit Board
Thickness

ALSO AVAILABLE WITH REED TYPE KEY MODULES

1.90

ACTUAL SIZE
(END VIEW)

.063
Mounting Panel
and
Circuit Board
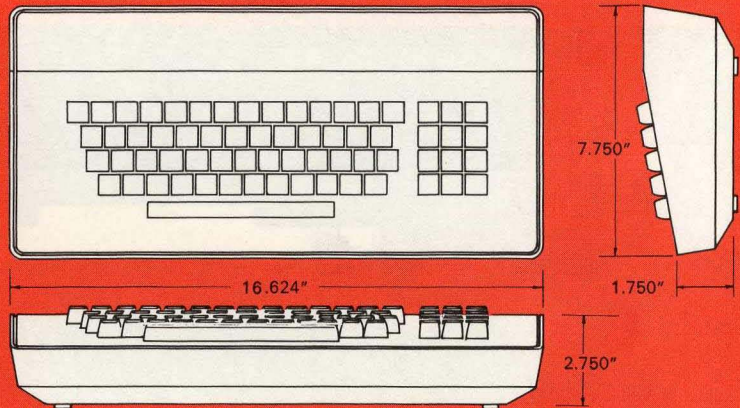Thickness

ENCLOSURE
(optional)

A modern design enclosure in blue and white no glare finish is available for the Cherry B80-3766 and B70-4753 keyboards at nominal extra cost.

The enclosure has a cable strain relief and rubber base pads that protect desk tops against scratching. The cast enclosure base has ample weight for stability.

7.750"

16.624"

1.750"

2.750"

ORDERING INFORMATION

KEYBOARDS

B80-3766
66 key ASCII Tri-Mode with Gold Crosspoint key modules

B70-4753
53 key ASCII Quad-Mode with Gold Crosspoint key modules (Similar to ASR 33)

B65-1712
12 key non-encoded Numeric station with Gold Crosspoint key modules

B80-3366
66 key ASCII Tri-Mode with Reed type key modules

B70-4353
53 key ASCII Quad-Mode with Reed type key modules (Similar to ASR 33)

B65-1312
12 key non-encoded Numeric station with Reed type key modules

KEY MODULES

261-0100
Single pole key module with Gold Crosspoint contacts.

262-0100
Double pole key module with Gold Crosspoint contacts.

201-0100
Key module with Single Form A reed switch.

202-0100
Key module with Double Form A reed switch.

GCRS-KB1271

PRINTED IN U.S.A.

CHERRY ®