



G 80-0520 H

IBM* 3270 compatible Keyboard.

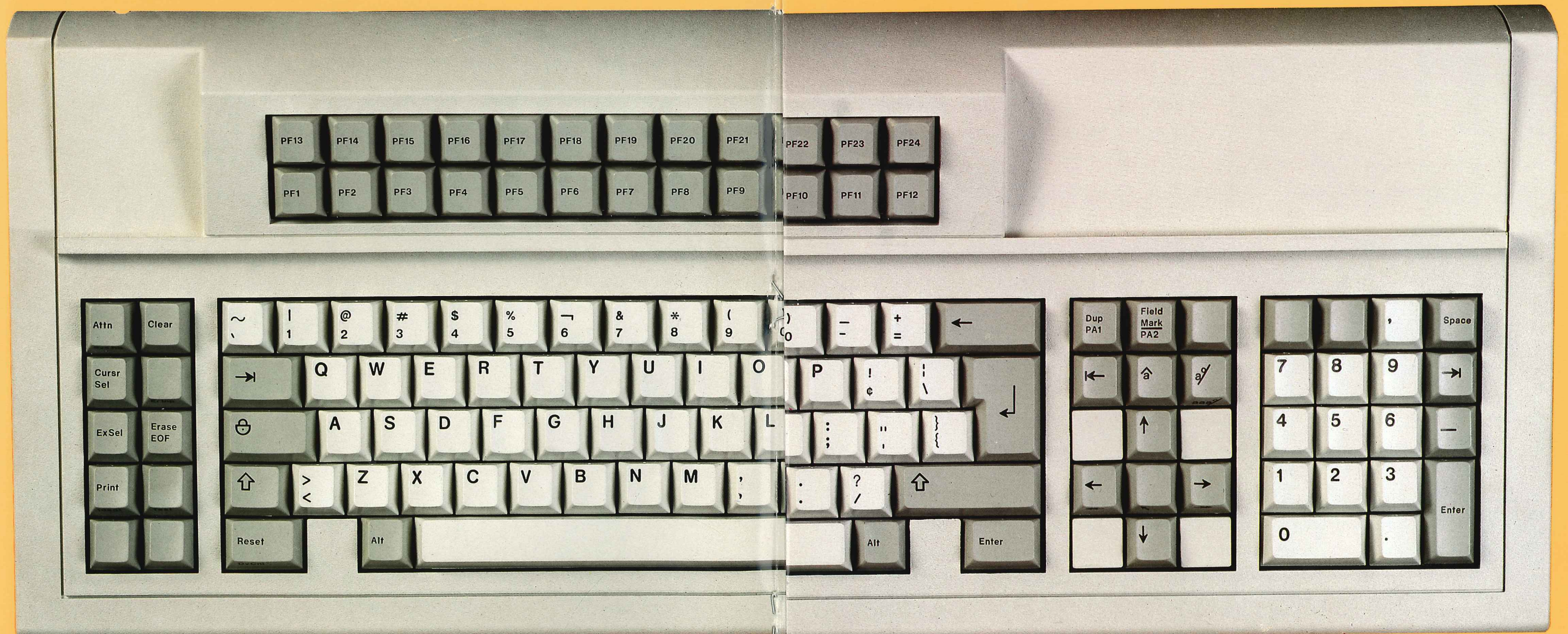
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Main Advantages

- Use of the superior Cherry MX keymodules with gold crosspoint contacts, linear or tactile version with touch-sensitive response ("tactile click").
- Precision contacts eliminate input errors.
- Reliability: MCBF = 1×10^9 operations.
MTBF = 20000 hours.
- Long life of each keymodule ($> 50 \times 10^6$ operations).
- IBM* 3270 plug compatible with serial interface.
- Housing and cable optional.
- Mechanically strong construction.
- PCB relieved through anti-torsion keyframe.
- Sturdy spacers between PCB and keyframe for heavy duty applications.
- Easy operation and prevention of double actuation due to ergonomic styling and cylindrical key layout.
- 4 mm full travel keyswitches.
- "Deep Dish" for homekeys F and J and dimple on key 5 of numeric pad assure easy location of fingers when touch-typing.
- 2-shot moulded keycaps are non-reflecting, wear resistant and easy to clean.
- Keycaps in light body color with darker legends (beige-grey, white-grey).
- Material conforming to UL 94.

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Important Features

- Mechanical keymodules with gold crosspoint contacts.
- Separate cursor and numeric pads as well as twin-rows of function keys.
- Synchronous data format.
- N-key rollover.
- Power supply +5V.
- Key layout versions:
US-international, German and French.
- Keyboard parameters (autorepeat, key classification, Make/Break etc.) are programmable through system.
- Standard keycap color: beige-grey (code U9), white-grey (code L9).

Electrical Data

Supply:
+5V ±5%, typically 200mAmp.

Interface:
Bidirectional, synchronous serially. The keyboard communicates via clock and data line with the system.

Data format:
Data transfer to and from keyboard via data line. Data transfer format: 11 bits; 1 start bit (LOW), 8 data bits (lowest first), 1 parity bit (parity odd) and 1 stop bit (HIGH).

Data output:
Open collector TTL.

Key buffer:
Byte F/FO.

Keyboard input sequence:
N-key rollover.

Codes:
Parameters programmable from system whether key generates code upon closing only or upon closing as well as opening.

Autorepeat function:
Parameters are programmable through system. The repeat frequency can be programmed from 2–30 Hz.
Repeat delay can be programmed from 0,25–1 sec.

Reset function:
The keyboard generates an automatic reset function.

Keyboard self-diagnostic test:
After POWER-ON and on request.

Temperature range:
Storage temperature: -40°C (-40°F) to +55°C (+131°F)
Operating temperature: 0°C (+32°F) to +50°C (+122°F)

Options:
Power supply: +12V.
Connection of barcode reader (code 39 standard, 2/5 code standard and interleaved, UPC-EAN-JAN-WPC code, codabar).



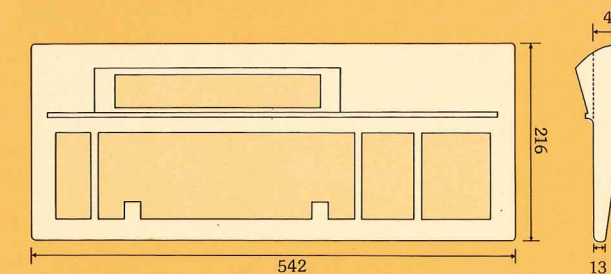
Connector Pin Assignment

| Pin | Assignment |
|-----|------------|
| 1 | DATA |
| 2 | CLOCK |
| 3 | Reserved |
| 4 | Shielding |
| 5 | Vcc |
| 6 | GND |
| 7 | Reserved |

Pin Assignment

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Housing Dimensions



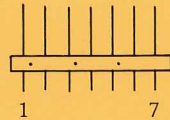
Keyboard Part Numbers

- G 80-0520H** US-international version with MX standard
- G 80-0937H** German version with MX standard
- G 80-0938H** French version with MX standard
- G 80-0939H** US-international version with MX and "tactile click"
- G 80-0940H** German version with MX and "tactile click"
- G 80-0941H** French version with MX and "tactile click"



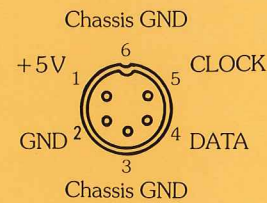
Pin Connector

AMPII, 7-pole No. 825437-7 or equivalent.



Keyboard Cable

2 m shielded and coiled cable, pebble-grey with 5-pole DIN plug 240°.

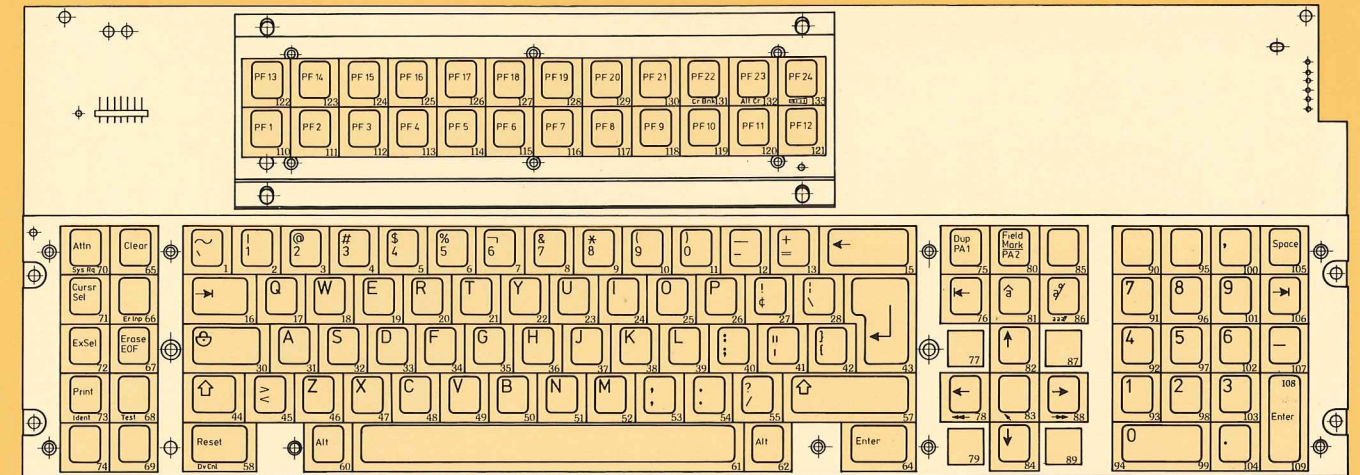


Codes

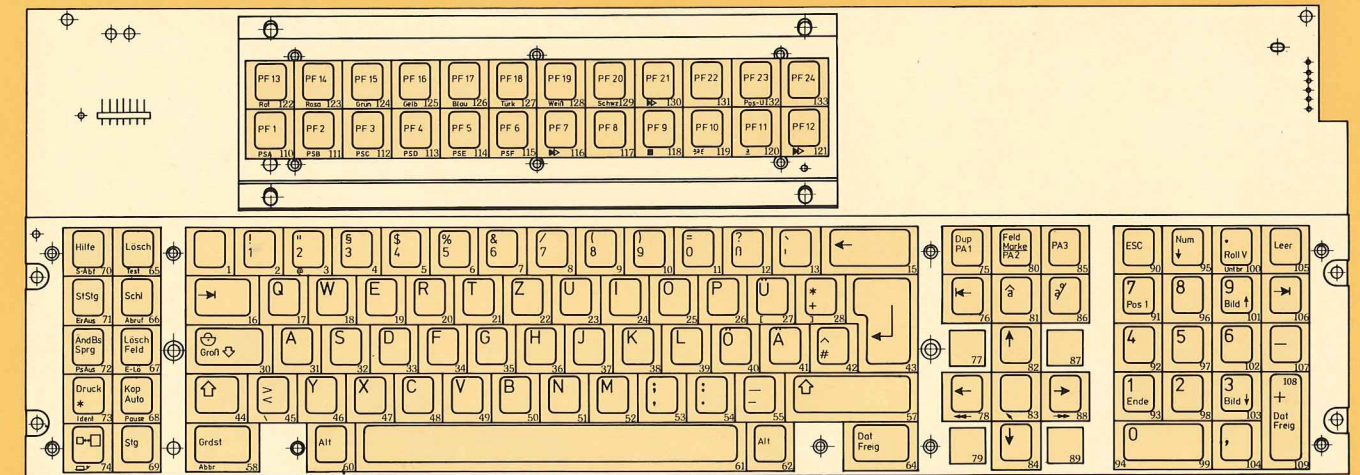
M = Make only M/B = Make-Break Codes shown in hexadecimal AR = Automatic repeat

| Key | Code | Status | Key | Code | Status | Key | Code | Status |
|-----|------|--------|-----|------|--------|-----|------|--------|
| 1 | 0E | AR | 46 | 1A | AR | 91 | 6C | M |
| 2 | 16 | AR | 47 | 22 | AR | 92 | 6B | M |
| 3 | 1E | AR | 48 | 21 | AR | 93 | 69 | M |
| 4 | 26 | AR | 49 | 2A | AR | 94 | 68 | M |
| 5 | 25 | AR | 50 | 32 | AR | 95 | 77 | M |
| 6 | 2E | AR | 51 | 31 | AR | 96 | 75 | M |
| 7 | 36 | AR | 52 | 3A | AR | 97 | 73 | M |
| 8 | 3D | AR | 53 | 41 | AR | 98 | 72 | M |
| 9 | 3E | AR | 54 | 49 | AR | 99 | 70 | M |
| 10 | 46 | AR | 55 | 4A | AR | 100 | 7E | M |
| 11 | 45 | AR | 56 | 51 | AR | 101 | 7D | M |
| 12 | 4E | AR | 57 | 59 | M/B | 102 | 74 | M |
| 13 | 55 | AR | 58 | 11 | M/B | 103 | 7A | M |
| 14 | 5D | AR | 59 | - | - | 104 | 71 | M |
| 15 | 66 | AR | 60 | 19 | M/B | 105 | 84 | M |
| 16 | 0D | AR | 61 | 29 | AR | 106 | 7C | AR |
| 17 | 15 | AR | 62 | 39 | M/B | 107 | 7B | AR |
| 18 | 1D | AR | 63 | - | - | 108 | 79 | M |
| 19 | 24 | AR | 64 | 58 | M/B | 109 | 78 | M |
| 20 | 2D | AR | 65 | 06 | M | 110 | 07 | M |
| 21 | 2C | AR | 66 | 0C | M | 111 | 0F | M |
| 22 | 35 | AR | 67 | 0B | M | 112 | 17 | M |
| 23 | 3C | AR | 68 | 0A | M | 113 | 1E | M |
| 24 | 43 | AR | 69 | 09 | M | 114 | 27 | M |
| 25 | 44 | AR | 70 | 05 | M | 115 | 2F | M |
| 26 | 4D | AR | 71 | 04 | M | 116 | 37 | M |
| 27 | 54 | AR | 72 | 03 | M | 117 | 3F | M |
| 28 | 5B | AR | 73 | 83 | M | 118 | 47 | M |
| 29 | 5C | AR | 74 | 01 | M | 119 | 4F | M |
| 30 | 14 | M/B | 75 | 67 | M | 120 | 56 | M |
| 31 | 1C | AR | 76 | 64 | AR | 121 | 5E | M |
| 32 | 1B | AR | 77 | - | - | 122 | 08 | M |
| 33 | 23 | AR | 78 | 61 | AR | 123 | 10 | M |
| 34 | 2B | AR | 79 | - | - | 124 | 18 | M |
| 35 | 34 | AR | 80 | 6E | M | 125 | 20 | M |
| 36 | 33 | AR | 81 | 65 | M | 126 | 28 | M |
| 37 | 3B | AR | 82 | 63 | AR | 127 | 30 | M |
| 38 | 42 | AR | 83 | 62 | M | 128 | 38 | M |
| 39 | 4B | AR | 84 | 60 | AR | 129 | 40 | M |
| 40 | 4C | AR | 85 | 6F | M | 130 | 48 | M |
| 41 | 52 | AR | 86 | 6D | AR | 131 | 50 | M |
| 42 | 53 | AR | 87 | - | - | 132 | 57 | M |
| 43 | 5A | AR | 88 | 6A | AR | 133 | 5F | M |
| 44 | 12 | M/B | 89 | - | - | | | |
| 45 | 13 | AR | 90 | 76 | M | | | |

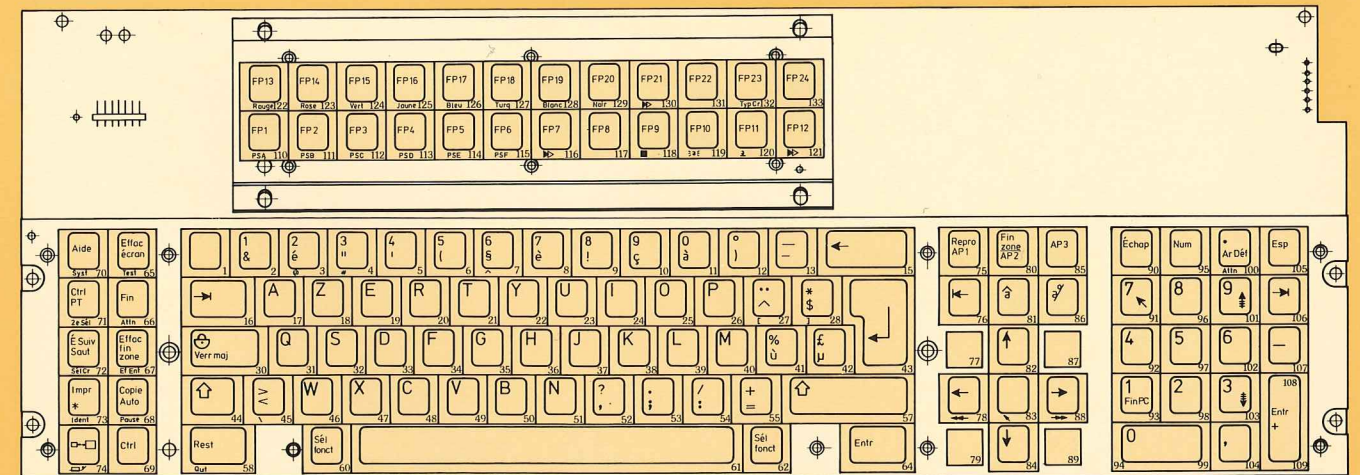
Keyboard G 80-0520H - US-international Layout



Keyboard G 80-0937H - German Layout



Keyboard G 80-0938H - French Layout



Cherry Program

Keyboards of high technology and excellent quality.

With high switching reliability even for speed-typing. Standard or customized, intelligent or non-encoded versions. Connectable to all popular EDP systems. Modern design. Harmony in colors. Variety of sizes and heights. With cable or infrared link. Ergonomic styling. With or without housing.



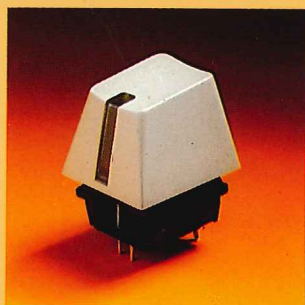
Thumbwheelswitches with assured security and long life.

Available in many standard and customized codes. Thumbwheel-, leverwheel- or push-version. Gang assemblies. Solderpins, connectors or plain soldering. Standard-, miniature- and subminiature-sizes. Also illuminated by LEDs or lamps. Customized lettering and stop limitation is available.



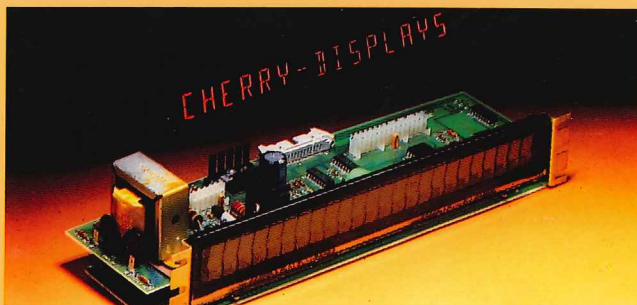
Snap action switches for the future.

For precise switching and highest reliability. Large scale of standard and non-standard models. Many different connecting possibilities. Standard-miniature and subminiature sizes. And a large number of auxiliary actuators.



Keymodules. For high technology keyboards.

M8, M9, MX. Keyswitches with exceptional performance. High switching reliability by gold-crosspoint contacts. Low profile design. Excellent touch feeling. Variety of keycap styles and colors. Ideal for ergonomically designed keyboards.



Ready-to-use alphanumeric displays with excellent reading ability.

With absolute and continuous brightness of all letters. Stable display picture. Big lettersize. Long life. With or without housing available.

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