



G 80-0537

**IBM*-AT compatible
Keyboard
with serial
Interface.**

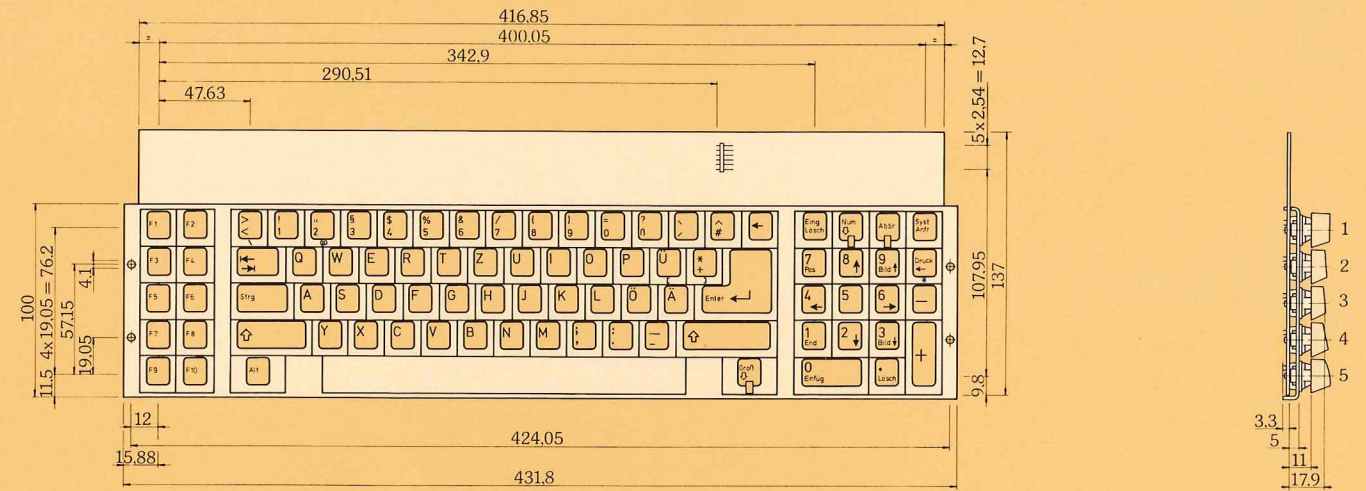
*IBM is the registered trademark of the International Business Machines Corporation.



Main Advantages

- Uses of high performance Cherry MX keymodules.
- Precision contacts eliminate input errors.
- Long life ($> 2 \times 10^7$ operations).
- IBM*AT plug compatible.
- Can be adapted for IBM*PC compatibility.
- Available with housing and cable.
- Mechanically strong construction.
- PCB supported by rigid coverplate.
- Easily operable with ergonomic "cylindrical style" keylayout.
- 4 mm full travel keyswitches.
- "Deep dish" for homekeys F and J and dimple on key 5 of numeric pad assure easy location for fingers when touch-typing.
- 2-shot molded matt keycaps that are wear resistant and easy to clean.
- Keycaps are available in light body color and darker legends (beige-grey, white-grey).
- Keyswitch materials conforming to KL 94.

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Important Features

- Mechanical keymodules with gold-crosspoint contacts.
- Low profile design (30 mm 3rd keyrow).
- Synchronous dataformat.
- N-key-rollover.
- Interchangeable between AT- and PC-Mode.
- Autorepeat, programmable system.
- Keylayout: US-International, German or French. Additional versions for other countries available upon request.
- Automatic watchdog protection.
- Standard keycap color: beige-grey and white-grey.

Electrical Data

Power supply:
+5V ± 5%, current consumption, typically 200 mA.

Interface:
bidirectional, serial synchronous. The keyboard communicates via clock- and dataline with the system.

Dataformat:
Datatransfer to and from the keyboard via dataline.

Dataword:
AT-Mode: Idle state: "Data & Clock" – high.
PC-Mode: 1 startbit, 8 databit
Idle state: "Data" – low, "Clock" – high.

Dataoutput:
Open collector TTL.

Databuffer:
All codes are buffered before sending out.

Keyboard sequence:
N-key-rollover for all keys.

Codes:
Each key generates a code when opened or closed IBM*-formats:
AT-Mode: Make code, break code = code FOH + make code.
PC-Mode: Make code, break code = made code +80 H.

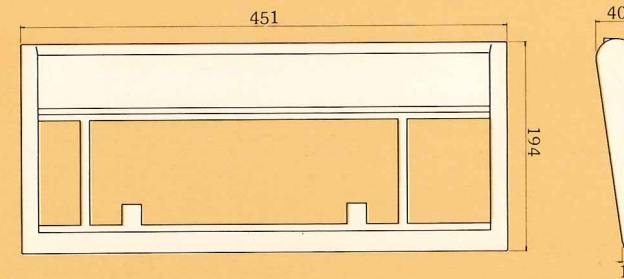
Automatic repeat function:
All keys have automatic repeat function.
Delay time and repeat sequence can be modified from system (Fixed for PC-Mode; 10 Hz after 100 msec. delay).

Reset function:
The keyboard automatically generates reset function.

Keyboard self diagnostic test:
After power-on or upon request from the system, the keyboard performs a self diagnostic test.
After positive test, the keyboard sends the code AA Hex.
Any other code is interpreted a failure.

Temperature range:
Storage temperature: -40°C to +70°C
Operating temperature: 0°C to +65°C.

Housing Dimensions



Keyboard Part Numbers

US-international	German	French
G 80-0537	G 80-0589	G 80-0588

For all keyboards the following accessories are available:

- Modern IBM*-style housing (sand-grey), Part No.: **G 99-0327**.
- 1,5 m shielded coiled cable, stone-grey, RAL 7032 with 5 pin DIN connector, Part No.: **617-0338**.

When ordering keyboards with a housing and cable the suffix **H** has to be added to the keyboard part No. (example G 80-... H).

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Pin-Connector

AMP II, 6 poles, No. **825437-6**
or equivalent.

Connector Pin Assignment

Pin	Assignment
1	KBDATA
2	KBCLOCK
3	—
4	Shielding
5	+5V
6	GND

Keyboard Cable

1,5 m coiled cable
with 5 pin DIN connector.

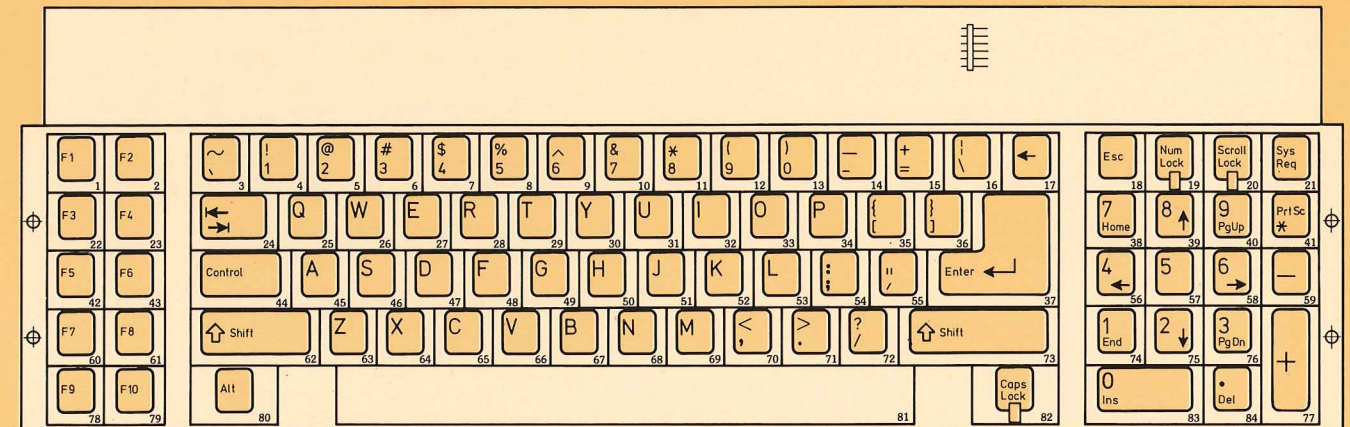
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1	KBCLOCK
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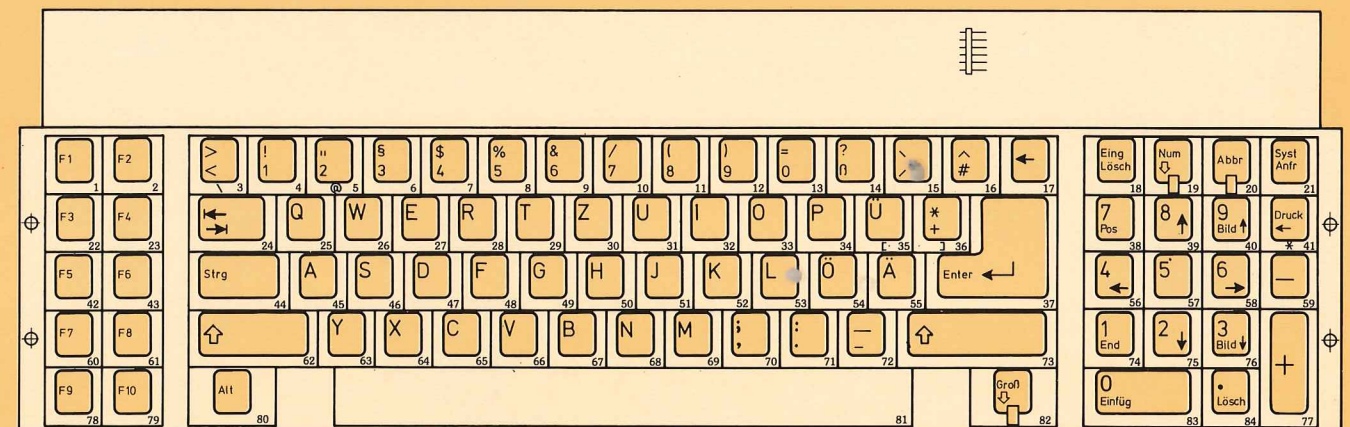
Codes

Key No.	AT-Mode	PC-Mode	Key No.	AT-Mode	PC-Mode	Key No.	AT-Mode	PC-Mode
1	05	3B	34	4D	19	67	32	30
2	06	3C	35	54	1A	68	31	31
3	0E	29	36	5B	1B	69	3A	32
4	16	02	37	5A	1C	70	41	33
5	1E	03	38	6C	47	71	49	34
6	26	04	39	75	48	72	4A	35
7	25	05	40	7D	49	73	59	36
8	2E	06	41	7C	37	74	69	4F
9	36	07	42	03	3F	75	72	50
10	3D	08	43	0B	40	76	7A	51
11	3E	09	44	14	1D	77	79	4E
12	46	0A	45	1C	1E	78	01	43
13	45	0B	46	1B	1F	79	09	44
14	4E	0C	47	23	20	80	11	38
15	55	0D	48	2B	21	81	29	39
16	5D	2B	49	34	22	82	58	3A
17	66	0E	50	33	23	83	70	52
18	76	01	51	3B	24	84	71	53
19	77	45	52	42	25			
20	7E	46	53	4B	26			
21	84	54	54	4C	27			
22	04	3D	55	52	28			
23	0C	3E	56	6B	4B			
24	0D	0F	57	73	4C			
25	15	10	58	74	4D			
26	1D	11	59	7B	4A			
27	24	12	60	83	41			
28	2D	13	61	0A	42			
29	2C	14	62	12	2A			
30	35	15	63	1A	2C			
31	3C	16	64	22	2D			
32	43	17	65	21	2E			
33	44	18	66	2A	2F			

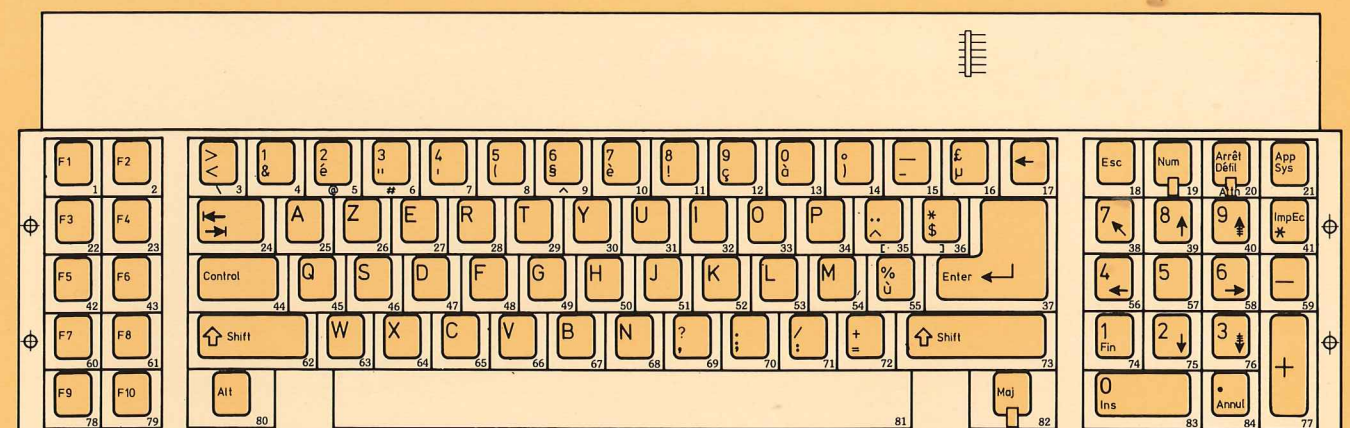
Keyboard G 80-0537 – US-international layout



Keyboard G 80-0589 – German layout



Keyboard G 80-0588 – 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.



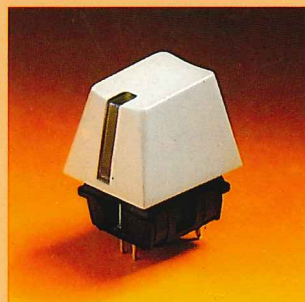
Thumbwheelswitches with assured security and long life.

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.



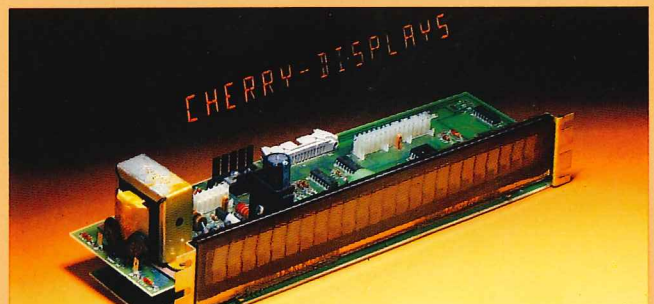
Snap action switches for the future.

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.