Comparison of Texas Instruments graphing calculators

A graphing calculator is a class of hand-held calculator that is capable of plotting graphs and solving complex functions. There are several companies that manufacture models of graphing calculators. Texas Instruments is a major manufacturer.

The following table compares general and technical information for a selection of common and uncommon Texas Instruments graphing calculators. Many of the calculators in this list have region-specific models that are not individually listed here, such as the TI-84 Plus CE-T, a TI-84 Plus CE designed for non-French European markets. These region-specific models are usually functionally identical to each other, aside from minor cosmetic differences and circuit board hardware revisions. See the individual calculators' articles for further information.

Calculator	CPU	RAM	Display Size	Physical Size (inches)	Contains CAS	Year Released	Initial MSRP (nominal US$)[1]	Use on College Board Standardized Tests[2]	Use on ACT Standardized Tests[3]
 **TI-73, TI-73 Explorer**	Zilog Z80 @ 6 MHz	25 KB of RAM, 512 KB of Flash ROM	96×64 pixels 16×8 characters	7.3 × 3.5 × 1.0[4]	No	1998/2003	95 (TI-73)	Allowed	Allowed
 **TI-80**	980 kHz Proprietary	8 KB of RAM (7 KB user accessible)	64×48 pixels 16×8 characters	6.4 × 3.0 × 0.9[4]	No	1995	Unknown	Allowed	Allowed
 **TI-81**	Zilog Z80 @ 2 MHz	8 KB of RAM (2.4 KB user accessible)	96×64 pixels 16×8 characters	6.75 x 3.125 x 1.0	No	1990	110	Allowed	Allowed
 **TI-82**	Zilog Z80 @ 6 MHz	28 KB of RAM	96×64 pixels 16×8 characters	6.9 × 3.4 × 1.0[4]	No	1993	125	Allowed	Allowed
 **TI-83**	Zilog Z80 @ 6 MHz	32 KB of RAM	96×64 pixels 16×8 characters	7.3 × 3.5 × 1.0[4]	No	1996	125	Allowed	Allowed
 **TI-83 Plus**	Zilog Z80 @ 6 MHz	32 KB of RAM (24 KB user accessible), 512 KB of Flash ROM (160 KB user accessible)	96×64 pixels 16×8 characters	7.3 × 3.5 × 1.0[4]	No	1999	104.99	Allowed	Allowed
 **TI-83 Plus Silver Edition**	Zilog Z80 @ 6 MHz/15 MHz (Dual Speed)	128 KB of RAM (24 KB user accessible), 2 MB of Flash ROM (1.5 MB user accessible)	96×64 pixels 16×8 characters	7.3 × 3.5 × 1.0[4]	No	2001	129.95	Allowed	Allowed
 **TI-83 Premium CE, TI-83 Premium CE Edition Python**	Zilog eZ80 @ 48 MHz	256 KB of RAM (150 KB user accessible), 4 MB of Flash ROM (3 MB user accessible)	320×240 pixels 26×10 characters (large font)	7.6 × 3.4 × 0.75	No	2015/2019	€129	Allowed	Allowed

 **TI-84 Plus**	Zilog Z80 @ 15 MHz	128/48 KB of RAM (24 KB user accessible), 1 MB of Flash ROM (480 KB user accessible)	96×64 pixels 16×8 characters	7.5 × 3.3 × 0.9	No	2004	109.99	Allowed	Allowed
 **TI-84 Plus Silver Edition**	Zilog Z80 @ 15 MHz	128/48 KB of RAM (24 KB user accessible), 2 MB of Flash ROM (1.5 MB user accessible)	96×64 pixels 16×8 characters	7.5 × 3.3 × 0.9	No	2004	129.99	Allowed	Allowed
 **TI-84 Plus C Silver Edition**	Zilog Z80 @ 15 MHz	128 KB of RAM (21 KB user accessible), 4 MB of Flash ROM (3.5 MB user accessible)	320×240 pixels 26×10 characters (large font)	7.5 × 3.3 × 0.9	No	2013	150	Allowed	Allowed
 **TI-84 Plus CE**	Zilog eZ80 @ 48 MHz	256 KB of RAM (154 KB user accessible), 4 MB of Flash ROM (3 MB user accessible)	320×240 pixels 26×10 characters (large font)	7.6 × 3.4 × 0.75	No	2015	150	Allowed	Allowed
 **TI-85**	Zilog Z80 @ 6 MHz	28 KB of RAM	128×64 pixels 21×8 characters	6.875 x 3.31 x 0.938	No	1992	130	Allowed	Allowed
 **TI-86**	Zilog Z80 @ 6 MHz	128 KiB of RAM	128×64 pixels 21×8 characters	7.3 × 3.5 × 1.0[4]	No	1996	150	Allowed	Allowed
 **TI-89**	Motorola 68000 @ 10 MHz/12 MHz (nominal)	256 KiB of RAM (188 KB user accessible), 2 MiB of Flash ROM	160×100 pixels	7.3 × 3.5 × 1.0[4]	Yes	1998	159.99	Allowed	Not Allowed
 **TI-89 Titanium**	Motorola 68000 @ ≤16 MHz	256 KiB of RAM (188 KB user accessible), 2.7 MB of Flash ROM	160×100 pixels	7.5 × 3.3 × 0.9	Yes	2004	149.99	Allowed	Not Allowed
 **TI-92, TI-92 II**	Motorola 68000 @ 10 MHz	68 KB of RAM/136 KB of RAM	240×128 pixels	4.7 x 8.2 x 1.5	Yes	1995/1996	200 (TI-92)	Not Allowed	Not Allowed
 **TI-92 Plus**	Motorola 68000 @ 12 MHz	256 KB of RAM (188 KB user accessible), 384 KB of Flash ROM	240×128 pixels	4.7 × 8.2 × 1.5[4]	Yes	1998	179.99	Not Allowed	Not Allowed

 **Voyage 200**	Motorola 68000 @ 12 MHz	256 KB of RAM (188 KB user accessible), 2.7 MB of Flash ROM	240×128 pixels	4.6 × 7.3 × 1.2[4]	Yes	2002	129.99	Not Allowed	Not Allowed
 **TI-Nspire, TI-Nspire CAS**	ARM9 @ 90 MHz/120 MHz	16 MB RAM, 20 MB of Flash ROM	320×240 pixels (16-shade grayscale)	7.90625 × 3.9375 × 0.96875	Only CAS model	2007 (CAS: 2010)	149 (CAS: 159)	Allowed	Only non-CAS model is allowed
 **TI-Nspire CX, TI-Nspire CX CAS**	ARM9 @ 132 MHz[5]	64 MB of RAM, 100 MB of Flash ROM	320×240 pixels (16-bit color)	7.5625 × 3.59375 × 0.75	Only CAS model	2011	154.99 (CAS: 162.99)	Allowed	Only non-CAS model is allowed
 **TI-Nspire CX II, TI- Nspire CX CAS II**	ARM9 @ 396 MHz	64 MB of RAM, 100 MB of Flash ROM	320×240 pixels (16-bit color)	7.5625 × 3.59375 × 0.75	Only CAS model	2019	165 (CAS: 175)	Allowed	Only non-CAS model is allowed
Calculator	**CPU**	**RAM**	**Display Size**	**Physical Size**	**Contains CAS**	**Year Released**	**Initial MSRP (nominal US$)**[1]	**Use on College Board Standardized Tests**[2]	**Use on ACT Standardized Tests**[3]

Programming language support

Calculator	TI-BASIC	Native code	Lua	Python
 TI-73, TI-73 Explorer	Yes	Yes	No	No
 TI-80	Yes	Only using exploits	No	No
 TI-81	Yes	Only using exploits	No	No
 TI-82	Yes	Only using exploits	No	No

 TI-83	Yes	Yes	No	No
 TI-83 Plus	Yes	Yes	No	No
 TI-83 Plus Silver Edition	Yes	Yes	No	No
 TI-83 Premium CE	Yes	Varies by firmware	No	Only with a TI-Python adapter[6]
 TI-83 Premium CE Edition Python	Yes	Varies by firmware	No	Yes
 TI-84 Plus	Yes	Yes	No	No
 TI-84 Plus Silver Edition	Yes	Yes	No	No
 TI-84 Plus C Silver Edition	Yes	Yes	No	No
 TI-84 Plus CE	Yes	Varies by firmware	No	No
TI-84 Plus CE(-T) Python Edition	Yes	Varies by firmware	No	Yes
 TI-85	Yes	Only using exploits	No	No
 TI-86	Yes	Yes	No	No

 TI-89	Yes	Yes	No	No
 TI-89 Titanium	Yes	Yes	No	No
 TI-92, TI-92 II	Yes	Only using exploits	No	No
 TI-92 Plus	Yes	Yes	No	No
 Voyage 200	Yes	Yes	No	No
 TI-Nspire, TI-Nspire CAS	Yes	Only using exploits	Yes	Only using exploits[7]
 TI-Nspire CX, TI-Nspire CX CAS	Yes	Only using exploits	Yes	Only using exploits[7]
 TI-Nspire CX II, TI- Nspire CX CAS II	Yes	Only using exploits	Yes	Yes[8]

See also

- Comparison of HP graphing calculators

References

1. "Home" (http://www.datamath.org/). *datamath.org*.
2. "AP Central - AP Calculator Policy" (http://apcentral.collegeboard.com/apc/public/ap_coordinators/on_exam_day/232033.html). *apcentral.collegeboard.com*. Retrieved 2017-05-13.
3. "ACT Calculator Policy" (http://www.act.org/content/dam/act/unsecured/documents/ACT-calculator-policy.pdf) (PDF). *act.org*. Retrieved 2019-10-19.
4. "Size and Weight Specifications of Texas Instruments Graphing Calculators" (https://epsstore.ti.com/OA_HTML/csksxvm.jsp?nSetId=80334).
5. "Nover 3: Boost your Nspire with the automatic overclocker" (http://www.omnimaga.org/news/nover-3-boost-your-nspire-with-the-automatic-overclocker/).
6. "Python-for-TI-83-Premium-CE" (https://education.ti.com/fr/product-resources/python-for-ti-83-premium-ce). *education.ti.com* (in French). Retrieved 2020-02-08.
7. "Ti-Planet-Micropython" (https://tiplanet.org/forum/archives_voir.php?id=313881). *tiplanet.org*. Retrieved 2023-03-02.
8. "Programming-in-Python" (https://education.ti.com/en/products/calculators/graphing-calculators/ti-nspire-cx-ii-cx-ii-cas/programming-in-python). *education.ti.com*. Retrieved 2020-08-30.