

Mégarom T.2

User Manual

Version 2.1

Mégarom T.2

Introduction

Thank you for purchasing a Mégarom T.2, which we hope will give you satisfaction for many years.

The Mégarom T.2 is a MEMO7 cartridge compatible with all the machines of the 8-bit Thomson TO family: T9000, TO7, TO7/70, TO8, TO8D, TO9, TO9+.

It provides a 2 MB persistent and rewritable flash memory space that can be used freely by the user. These 2 MB are accessed through 128 banks of 16 KB each, in the cartridge space of the machine (\$0000- \$3FFF).

The Mégarom T.2 is 100% backward compatible with the Mégarom T.1 and all commercial software distributed in MEMO7 format, including 32 and 64 KB multi-bank software (e.g. Microsoft® BASIC 128).

It can also be used to develop and / or distribute software that requires up to 2 MB of ROM space.

Package Contents

The package contains a ready-to-use printed circuit board and a self-adhesive label for the MEMO7 case. A MEMO7 case is optionally available.

The board comes preloaded with a compilation of various software.

Getting Started

1. Insert the board into a MEMO7 case so that the edge connector remains visible.
2. Insert the cartridge into your machine. On T9000, TO7 and TO7/70, it is recommended to switch off the machine before inserting the cartridge. On TO8/8D/9/9+, hot-plug is possible. A reset will be necessary in this case to make the Mégarom T.2 appear in the startup menu.
3. With the standard image preloaded, the startup menu will appear as follows:

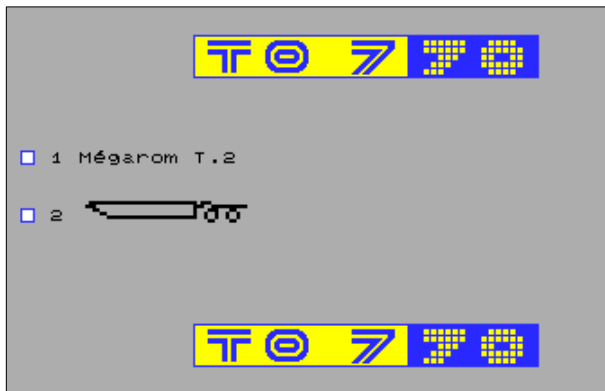
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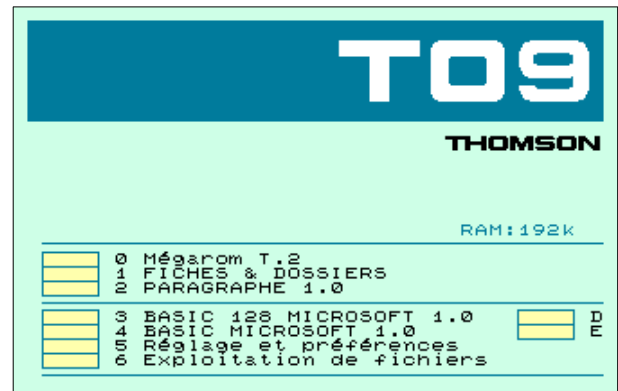
T9000



T07



T07-70



T09



T08



T08D



T09+

- Select option 1 on T9000, TO7 and TO7/70 and 0 on TO8/8D/9/9+.
- With the standard image preloaded, the T.2 selection menu appears. The list of available applications may vary depending on the host machine (only compatible software is displayed):



T9000, TO7



TO7/70



TO9



TO8, TO8D, TO9+

- Select the desired application with the corresponding key. Arrow icons displayed on the right of the screen mean that you may use the up and down arrow keys to navigate to the next or previous page.

- The selected application is launched.

Going Back to the Main Menu

When the reset button (init. prog.) is pressed, the computer returns to its startup menu. With the standard image preloaded in the Mégarom T.2, two situations are possible:

- a short press on the button shows in the menu the last selected application (MEMO7 only)
- a long press (more than 2 seconds) brings up the Megarom T.2 in the menu. It is thus possible to change the application without turning the machine off and on again.

Applications Provided in the Standard Image

The standard image version 2.1 contains the following applications:

Title	Type	TO7 / T9000	TO7/70	TO9	TO8/8D/9+	Category
Airbus	MEMO7	✓	✓	✓	✓	Game
Amiga-TO v3.2	MEMO7				✓	Utility
Androïdes	BIN		✓	✓*	✓*	Game
Anima3D	BIN				✓	Demo
Aquanaute	BIN			✓	✓	Game
Arkanoïd	BIN		✓	✓*	✓*	Game
Assembleur 6800	MEMO7	✓	✓	✓	✓	Utility
Assembleur 6801	MEMO7	✓	✓	✓	✓	Utility
Assembleur 6805	MEMO7	✓	✓	✓	✓	Utility
Atomium	MEMO7	✓	✓	✓	✓	Game
Avenger	BIN		✓*	✓*	✓*	Game
Bactron	BIN				✓	Game
Balthazar	BIN		✓	✓	✓	Game
Blitz	MEMO7	✓	✓	✓	✓	Game
Bloody Run	BIN				✓	Demo
Bob Morane Chevalerie	BIN			✓	✓	Game
Bob Morane Jungle	BIN			✓	✓	Game
Brain Power	BIN		✓	✓	✓	Game
Budget familial	MEMO7	✓	✓	✓	✓	Utility
Calculatrice	MEMO7	✓	✓	✓	✓	Utility
Captain Blood	BIN			✓	✓	Game
Caractor	MEMO7	✓	✓	✓	✓	Utility
Caractor II	MEMO7	✓	✓	✓	✓	Utility
Care-Format	BIN				✓	Utility
Choplifter	MEMO7	✓	✓	✓	✓	Game
Cobra	BIN				✓	Game
Colorcalc	MEMO7	✓	✓	✓	✓	Utility
Colorcalc +	CHG				✓	Utility
Colorpaint	MEMO7		✓	✓	✓	Utility
Compactor	MEMO7	✓	✓	✓	✓	Utility
Contrôle aérien	MEMO7	✓	✓	✓	✓	Game
Crazy Cars	BIN		✓	✓	✓	Game
Crypto	MEMO7	✓	✓	✓	✓	Game
Des chiffres et des lettres	MEMO7	✓	✓	✓	✓	Game
Echo	MEMO7	✓	✓	✓	✓	Game

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Eliminator	BIN	✓	✓	✓*	✓*	Game
Entropie	BIN				✓	Game
Fiches & Dossiers	CHG				✓	Utility
Forth 79 S.E.F.I. v1.0	MEMO7	✓	✓	✓	✓	Utility
Gémini	MEMO7	✓	✓	✓	✓	Game
Gérez vos fiches	MEMO7	✓	✓	✓	✓	Utility
Gérez votre bibliothèque	MEMO7	✓	✓	✓	✓	Utility
Jailhouse Blues	BIN				✓	Demo
James Debug 1	BIN		✓	✓	✓	Game
James Debug 2	BIN		✓	✓	✓	Game
K.Y.A. (Keep Yourself Alive)	BIN			✓	✓	Game
Kandy Krush Java	MEMO7	✓	✓	✓	✓	Game
Karaté	BIN		✓	✓	✓	Game
Krakout	BIN		✓	✓	✓	Game
La nuit des Templiers	BIN		✓	✓	✓	Game
Le 5ème Axe	BIN		✓	✓	✓	Game
Le crépuscule du naja	BIN			✓	✓	Game
Les cavernes de Thénèbé	BIN		✓	✓	✓	Game
Les classiques Titus vol. 1	BIN		✓	✓	✓	Game
Les classiques Titus vol. 2	BIN		✓	✓	✓	Game
Les classiques Titus vol. 3	BIN		✓	✓	✓	Game
Les classiques Titus vol. 4	BIN		✓	✓	✓	Game
Logicod	MEMO7	✓	✓	✓	✓	Game
LOGO S.O.L.I v1.0	MEMO7	✓	✓	✓	✓	Utility
MacroAssembler v3.6	MEMO7	✓	✓	✓	✓	Utility
Maddog	BIN		✓	✓	✓	Game
Magic	BIN		✓	✓	✓	Game
Mélodia	MEMO7	✓	✓	✓	✓	Utility
Météo-7	BIN	✓	✓	✓	✓	Game
MGT	BIN				✓	Game
Microsoft Assembler 6809 v1.0	MEMO7	✓	✓	✓	✓	Utility
Microsoft Assembler 6809 v2.0	MEMO7	✓	✓	✓	✓	Utility
Microsoft BASIC 128	MEMO7		✓		✓	Utility
Microsoft BASIC v1.0	MEMO7	✓	✓			Utility
Microsoft Multiplan v1.07	CHG				✓	Utility
Miner 2049er	MEMO7	✓	✓	✓	✓	Game
Mission	BIN				✓	Game
Mission: Liftoff	BIN				✓	Game
Motus	MEMO7	✓	✓	✓	✓	Game

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Paragraphe v2.0	CHG				✓	Utility
Pictor	MEMO7	✓	✓	✓	✓	Utility
Polyphonia	MEMO7	✓	✓	✓	✓	Utility
Praxitèle	MEMO7	✓	✓	✓	✓	Utility
Prolog v1.0	MEMO7		✓	✓	✓	Utility
Pulsar II	BIN	(✓)	✓	✓*	✓*	Game
Recat v2.12	BIN				✓	Utility
Réussites	BIN				✓	Game
Saphir	BIN		✓	✓	✓	Game
Sapiens	BIN		✓	✓	✓	Game
Scanner	BIN				✓	Utility
Scriptor	MEMO7	✓	✓	✓	✓	Utility
Sorcery	BIN		✓	✓	✓	Game
Sortilèges	BIN		✓	✓	✓	Game
Space Racer	BIN			✓	✓	Game
Space Tunnel	BIN		✓	✓	✓	Game
Spindizzy	BIN		✓	✓	✓	Game
Stone Zone	BIN		✓	✓	✓	Game
Studio	MEMO7		✓	✓	✓	Utility
Super Flippard	BIN			✓	✓	Game
Super Tennis	BIN		✓	✓	✓	Game
Survivor	MEMO7	✓	✓	✓	✓	Game
Synthétia	MEMO7	✓	✓	✓	✓	Utility
Threshold	MEMO7	✓	✓	✓	✓	Game
TO-Demo	CHG				✓	Utility
TO-Digi	CHG				✓	Utility
TO-Graph	CHG				✓	Utility

(✓) 16 KB RAM expansion (EM90-016) mandatory.

✓* Joystick mandatory.

Differences Between MEMO7, CHG and BIN

In the standard image, there are three types of software storage: MEMO7, CHG, and BIN.

The MEMO7 type corresponds to applications usually provided in the form of a ROM cartridge. Once configured, such an application remains visible in the startup menu of the machine, option 1 on T9000/T07/T07-70 and 0 on TO8/8D/9/9+. The MEMO7 applications being run from the ROM, their code does not take up space in RAM.

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The type CHG corresponds to the usual applications provided on floppy disks, only for TO8/8D/9+. These applications are thus loaded into RAM and can be called and managed through option 4, "Appel de programme" in the startup menu. After a reset, the last used CHG application appears as option 6.

The BIN type corresponds to free binary programs, loaded and executed in RAM.

Cheat Modes

Some games have a cheat mode. When one of these games is started, a menu appears which allows to alter the behavior of the game (infinite lives, etc.).

Updating the Software

Updates for the standard Mégarom T.2 image are released from time to time.

There are two ways to update your Mégarom T.2 cartridge : with a set of floppy disks or through a connection to a PC with CC90 (<http://www.pulsdemos.com/cc90.html>).

Follow these steps to update your Mégarom T.2 cartridge with the floppy disks :

1. Insert the cartridge in the host computer and switch on the computer.
2. Insert the first floppy disk and select B (TO8/8D/9+) or D (TO9) in the start-up menu (On the TO7 and TO7/70, select the floppy disk icon or "UN PROGRAMME ENREGISTRE").
3. Insert the next floppy disks as the computer instructs.
4. Programming the cartridge takes about 6 minutes.
5. When programming is over, press STOP or init. prog. (reset).

Follow these steps to update your Mégarom T.2 cartridge with CC90:

1. Insert the cartridge in the host computer, and connect the computer to a PC using the same hardware as CC90.
2. Select "0 – Mise à jour" in the Mégarom menu.
3. Start the update tool on the PC side.
4. Click on the button "Flash the Megarom" and select the binary image.
5. Programming the cartridge takes up to 12 minutes.
6. When programming is over, press init. prog. (reset) to enable the new software in the startup menu of the host computer.

Contact Information

For further information or questions, please visit the website <http://megarom.forler.ch>.

In particular, you will find all the technical information you need to develop your own software with the cartridge.

Document History

This user manual is available in its latest version on the website <http://megarom.forler.ch>.

Date	Revision	Comments
2021-09-04	1.0	First version