***“We are currently testing the final prototype - that should be done by the end of the month. I cannot say right now how long procurement of PCBs and other parts in sufficient quantities will take, but it should not be too far out!”* --Willi OE1WKL 2025-07-19**

**Echo Trainer**

• The played word must be repeated, with feedback on whether it is correct or incorrect. • The same selection options for the input as with the CW Generator.
• The number of attempts is adjustable.
• Manual key input is also supported.

**Koch Trainer**

• Learn character by character.
• CW Trainer and Echo Trainer for the characters learned so far.

**Transceiver**

• Direct communication between Morserinos via 2.4 GHz (ESP-NOW technology).
• WiFi transceiver enables communication over the Internet and connections via chat servers or QSObots.
• Support for iCW and VBand over the Internet.

**Decoder**

• Decodes either from manual key input or audio input.

**Availability / Price Information**

Announcements will be made on https://www.morserino.info and https://morserino.groups.io.

**ÖVSV – Austrian Amateur Radio Association**

The ÖVSV, as the representative body for all Austrian amateur radio operators, is a member of the IARU "International Amateur Radio Union" (Region 1). The ÖVSV is a non-profit association aimed at promoting and preserving amateur radio. Its activities extend across the entire territory of the Republic of Austria.

The ÖVSV is your contact point!
• We advocate for amateur radio.
• Services and support for your hobby.
• Assistance and training in regional associations.
• Transition and entry into amateur radio.
• Emergency radio service – interface with authorities.
• Representation of interests.

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**Morserino**

M32 Pocket is coming! © ÖVSV, 2025 Text: OE1WKL, Willi Kraml More information at www.morserino.info www.oevsv.at

**The M32 Pocket is coming!**

The time is near – the third generation of the Morserino-32 is in its final preparation phase (the images show various prototypes; minor design changes to the casing are still possible).

**What remains – and what’s new?**

**Hardware:**

• Larger and higher-contrast display (1.9" color TFT), offering better readability.
• Tone generation and amplification via digital codec: resulting in a clean sine tone.
• Standard version without LoRa – but still comparable functionality – see the software section.

**Software:**

• The firmware of the M32 Pocket is based on the same foundation as previous versions, ensuring practically identical operation and functionality.
• Version 7.0, which will be released simultaneously with the M32 Pocket, offers several new features (these functions will also be available for existing Morserino-32 devices via a simple firmware update):

* An option to flip the display view by 180°: important for left-handed operation of the M32 Pocket.
* The ability to generate the 5,000 most common English words.
* An option to display output on the screen in UPPERCASE letters.
* Bluetooth keyboard output: enabling practice with VBand (a popular online training platform) without an additional dongle, and also allowing the Morserino to be used as an input keyboard for smartphones, tablets, or computers.
* New WiFi functionality with ESP-NOW allows communication between Morserinos without additional hardware (comparable to the LoRa functionality of older generations): peer-to-peer communication on 2.4 GHz, without an access point/router.

**M32 Pocket Overview**

**General**

• Small and lightweight (approx. 100 g) in a 3D-printed casing, with integrated capacitive touch paddle.
• Very readable 1.9" TFT display.
• Powered by a LiPo battery of the standard 14500 type (inserted into the battery holder on the circuit board).
• USB-C port (for charging the battery and communication with an external computer). • Port for external key (supports paddle and manual key).
• Port for transmitter/transceiver (to key the transmitter).
• Port for headphones or audio input/output for external devices.
• Large, powerful speaker.
• Adjustable frequency and volume of the monitoring tone.
• Simple operation via rotary encoder (with push-button function) and additional push button.
• Easy firmware updates either via WiFi or USB.
• Communication with external PC via USB (serial protocol): can be used for speech output, parameter settings, or remote control of Morserino functions (implementation of all these functions, e.g., at tegmento.org).

**CW Keyer**

• From 5–60 WpM (25–300 characters per minute), in Iambic A, B, or Ultimatic mode.
• Memory keyer functionality (memories are programmed via an external PC).
• Paddle polarity can be switched.

**CW Generator**

• Generates random characters, call signs, common CW abbreviations, or frequent English words.
• The length of the output words/character strings can be adjusted.
• Spacing between characters and words can be increased.
• Can also play text files uploaded via WiFi or USB.
• Can play from these files.
• All Morserinos can transmit. More information at www.morserino.info and morserino.groups.io.