



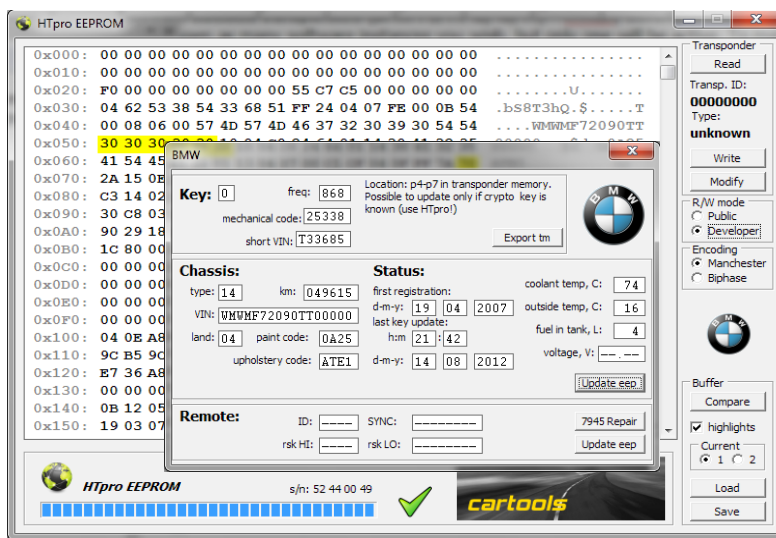
HTpro

Hitag-2 transponder programmer

HITAG-2 transponder basestation:

- covers Hitag-2 transponder family (PCF7936, PCF7942, PCF7943, PCF7944, PCF7946, PCF7947, PCF7941A/52A and so on. Pocket size and lightweight, designed as USB dongle with external antenna circuit. Antenna PCB size: 75x75 mm, with holes to hold glass tube / plastic transponder or complete key.
- powered from USB;
- software consists of 2 modules, **HTpro** for general purpose jobs, **HThex** for extended EEPROM access;
- can read SK from selected transponders (BMW PCF7942/43/44) – **HThex**, developer mode;
- BMW / MINI key explorer – **HThex**, click on BMW icon;
- it is possible to open as many software instances you wish, but only one will be active. To make software active or inactive must click on a globe near serial number.

HThex:



- RW mode: use public for classic RW, developer for HITAG block access (0x000 to 0x01F);
- buffer: you may read transponder key into 1st or 2nd buffer, then compare both. Differences or unsaved edits are highlighted;
- click on BMW icon opens key explorer screen (works with original keys);
- you can edit some car specific data, repair RC, update remote RSK (located at 0x1E0...0x1FF).

HTpro:

to start job press button "New", transponder is identified, all buffers are cleared. All task results are highlighted in different colors:

- YELLOW**: read OK
- RED**: read or write ERROR
- GREEN**: write OK
- OLIVE**: not changeable,
- BLUE**: only at Page2 write: crypto already written, failed to update first 2 bytes (calibration data for transponder internal use).

R/W with: password used for transponder RW actions;
D: load default Hitag password (MIKRON);

Use **7936 fast init** checkbox to unblock transponder from special modes (like animal ID). Not recommended to use it by default because non-standard transponder setup timings are used.

BMW icon: click to load keyfile (exported from **CAScontrol** utility), choose first unused key, write transponder. Key is ready to start vehicle. **NOTE:** must read transponder ID first!

