SCHEDELEAKS

Tutto ciò che avreste voluto sapere sulle schede telefoniche

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ospitata da:

Schede Telefoniche.org

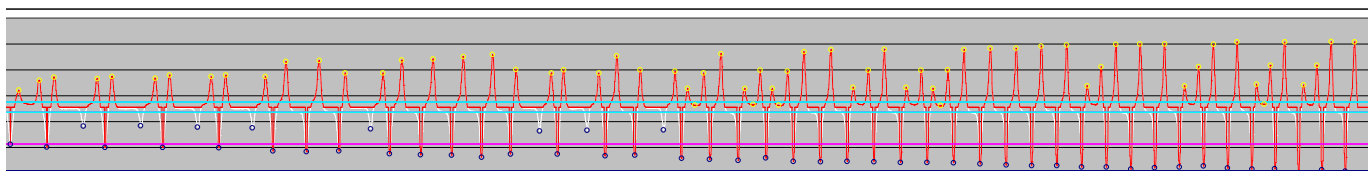# 4th - Decoding and translation of codes

4th - Section 1

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Decoding and translation of codes

4-Section 1

Using the oscilloscope we view the entire section:

Small clarification: as stated in the previous chapters, the information "1" is represented in this decoding system by two positive peaks. In section "1" of the telephone cards, in the first part of it, some 1 bits have the double sequence of positive peaks interrupted by a slight negative peak which must therefore be excluded. Possibly this is a rebound perhaps due to the fact that the head I used for the tests does not conform to the one used in the cabs; or again it is a control code originally envisaged, at the moment I can't say more, I just know that ignoring these shorter negative peaks, the translation of the section leads to codes compatible with those produced by the original SIP / Telecom machines . In any case, the fact that the first bit is a canonical "1" is singular, while the following ones present this morphology. If it were a reading error that characterizes the first portion of the band, then the first bit should also show this characteristic, in reality it is not.

In any case, it is clearly seen that these negative peaks are shorter than the others and it is relatively easy to identify and then exclude them. Here is an enlargement of the portion under discussion
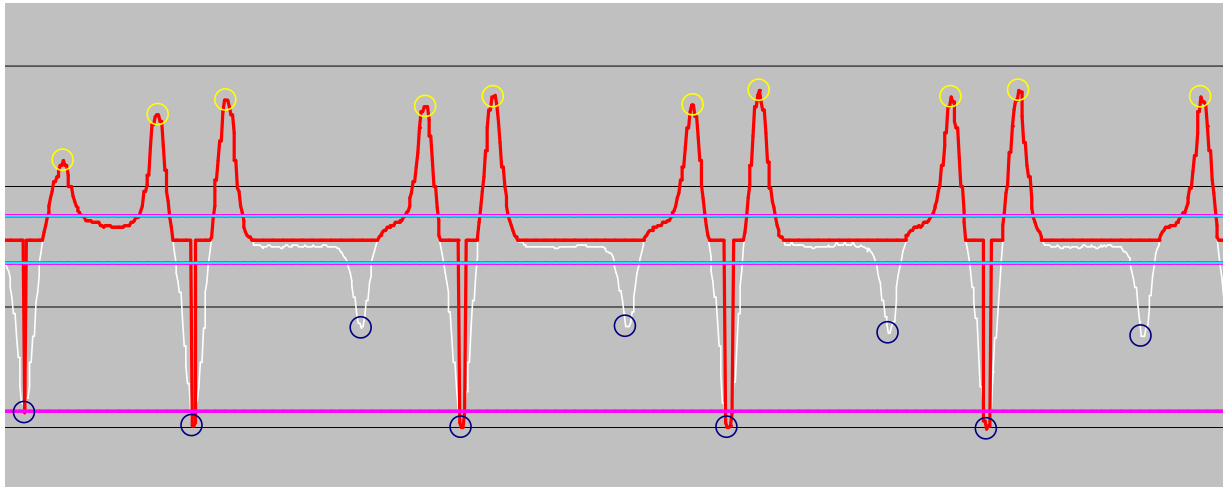
The negative peaks colored in white are excluded, in this way the two positive peaks are rejoined which will form a type "1" information.

A confirmation that my method of translating these anomalous peaks is that, regardless of the number of them present within the band, the total number of resulting bits is always 42 (as described below).

This variety is even more unique in white / red Urmet, here is an example:
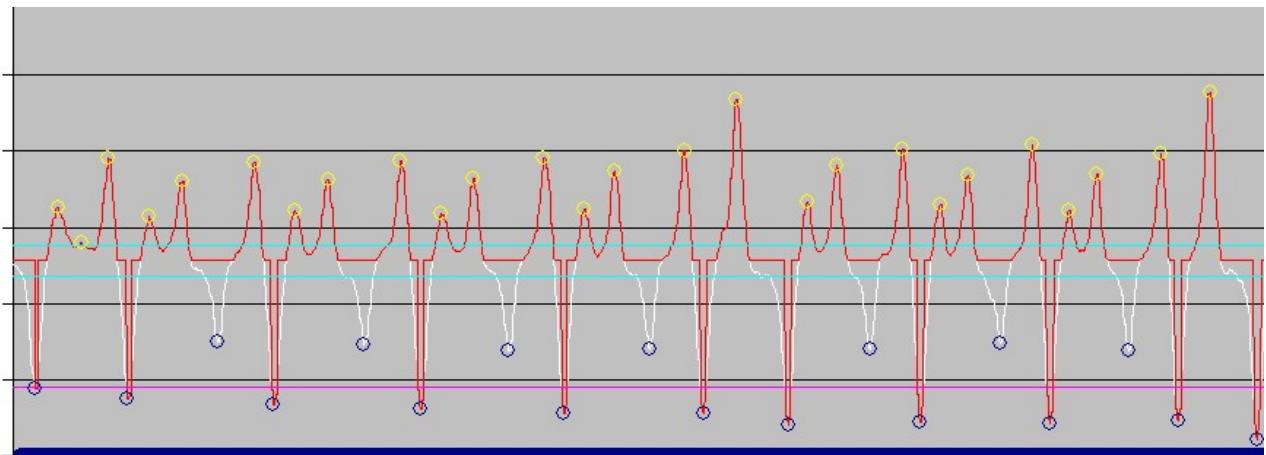
Also in this case it is possible to notice these shorter negative peaks, only that compared to the previous case, the short negative peak divides a

double positive peak and one negative peak. Also in this case the first bit 1 has a regular morphology.

This section consists of 42 different bits, here is an example:

111110010000110110110010110000010001001010

From the tests carried out it is possible to hypothesize the following translation:

1 1 1 1 1 0 0 1 0 0 0 0	1 1 0 1 1 0	1 1 0 0 1 0	1 1 0 0 0 0 0 1	0 0 0 1 0 0 1 0 1 0 4 bit				
		4 bit	4 bit	8 bit	16 bit			
START	???	n° emission class	n° class	serial number	progressive number			

- START: all the cards begin with this sequence, so it is possibly the magic number of the telephone cards (perhaps only the Italian ones);

- ???: section not yet decoded, possible section containing the signal integrity code, the CRC.

The other sequences identify the so-called "codes" of the telephone cards:

- N ° of class: in our example we have "0011" which from binary to decimal from "3";

- Issue number: we have 0110 which becomes 6 in decimal. This number is zero based, we add 1 and we get 7;
- Serial number: in binary we have 11001011 which in decimal becomes 203. This number is zero-based, we add 1 and we get 204

- Progressive number: in binary we have "0000010001001010", in decimal 1098.

Here are then identified the famous codes of the machines! For the card in question we have: 03/07/204/1098. Only the credit part is missing but we will see it later.

NOTE:

In some machines the encoding seems to be different, and the encoding of the emission number takes place in 3 bits.

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