

CRC Reverse

CRC algorithm finder & calculator · BinRazor

What it does

CRC Reverse recovers the parameters of an unknown CRC algorithm from a few known message-checksum pairs, then lets you calculate CRCs with the recovered (or any) parameters. It is built for working with control-unit data where a block is protected by a CRC checksum that must be recalculated after editing. The tool works in three steps, shown side by side on screen.

Step 1 — Enter your data

Fill the table with known pairs. Each row has two fields:

Payload	The message bytes, in hex (the data the CRC was computed over).
-------------------------	---

Checksum	The known CRC value for that payload, in hex.
--------------------------	---

Provide at least 3-4 good pairs. More pairs eliminate false results and confirm the model. Pairs where the payloads differ only in the last byte or two make the search much faster.

Step 2 — Search for the algorithm

Press Search. The tool first checks a built-in catalogue of known CRC algorithms; if your data matches one, it appears instantly. If not, a full mathematical search begins. Every matching model is listed with its full parameters:

[Algorithm](#) · [Byte Order](#) · [Poly](#) · [Init](#) · [RefIn](#) · [RefOut](#) · [XorOut](#)

Click any result row to load its parameters straight into the calculator (Step 3).

Step 3 — Interactive CRC calculator

Calculate a CRC for any data using a chosen model. You can either pick a ready algorithm from Quick Select, click a search result from Step 2, or type the parameters by hand. The result updates live as you type.

Calculator parameters

Width	Register size in bits (e.g. 16, 32).
-----------------------	--------------------------------------

Poly	Generator polynomial, in hex.
----------------------	-------------------------------

Init	Initial register value, in hex.
----------------------	---------------------------------

RefIn	Reflect input bytes (LSB first) when checked.
-----------------------	---

RefOut	Reflect the output CRC when checked.
------------------------	--------------------------------------

XorOut	Value XORed with the final CRC, in hex.
------------------------	---

Data	The hex data to compute the CRC over.
----------------------	---------------------------------------

The Swap option

Some control units store the CRC with its bytes swapped relative to the standard output. Enable Swap CRC to byte-swap the calculated result (16- and 32-bit), so it matches the order found in the dump.