



Newsletter - APRIL 2012

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Print Version

MX623 (20 x 8.5 x 2.5 mm)

The cheapest ZIMO decoder of "all time" - with full ZIMO features.

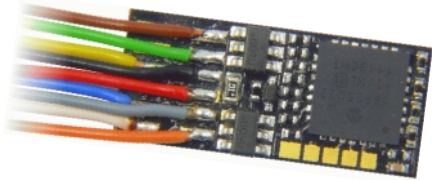
At the Intermodellbau Dortmund (from 18. April):

At introductory price €20 (all types).
(Normal RRP: €26)

The MX623 is functionally identical to the other non-sound-types, in particular, the MX630 - the best selling ZIMO decoder type. Since MX623 is built smaller than the MX630, it is somewhat less powerful (0.8 A instead of 1 A), and has less functional outputs (4 instead of 6, including 2 instead of 4 provided with connecting wires are), which are often not needed in many applications. The variant below shows a MX623P12 PluX-12 decoder, which is no wider than the 12-pin interface itself, and fits in all vehicles that contain a PluX-12 connector, regardless of the "interpretation" of the standard decoder dimensions.

- Type **MX623**: wires only
- Type **MX623R**: NEM652 (8 pin plug) on wires
- Type **MX623F**: NEM651 (6 pin plug) on wires

Type **MX623P12**: PluX-12



DCC + RailCom, DC-analogue, MM, AC-analogue

20 x 8.5 x 2.5 mm

0,8 A motor-, total current

4 function outputs (Lv, Lr, FA1, FA2)

2 more unction outputs as logic level (FA3, FA4)

2 logic level outputs for more functions, servo control orSUSI

Like all ZIMO decoders: software updates over the rail (without opening the loco)
All the usual ZIMLO features: extended function mapping, lighting effects, HLU etc.

MX622 (14 x 9 x 2.5 mm)

New Miniature Decoder - with full ZIMO features.

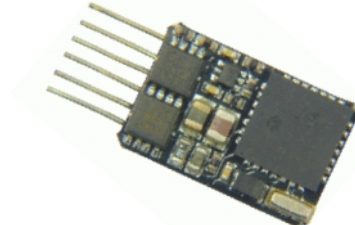
At the Intermodellbau Dortmund (from 18. April):

At introductory price €25 (all types)
(normal RRP: €31)

The decoder MX622 family has similarities to the "sub-miniature" types MX621, MX622, although the dimensions are somewhat bigger, but instead equipped with the full ZIMO features: including MM (Motorola), power-connectors, SUSI, advanced function mapping ... , connection and software like the "larger" non-sound-types MX623, MX630, etc.

- Type **MX622**: wires
- Type **MX622R**: NEM652 (8 pin plug) on wires
- Type **MX622F**: NEM651 (6 pin plug) on wires

Type **MX622N**: NEM651 (6 pin plug) direct (on board)



(MX622, continued from page 1)

DCC + RailCom, DC-analogue, MM, AC-analogue

14 x 9 x 2.5 mm

0,7 A motor-, total current

4 function outputs (Lv, Lr, FA1, FA2)

2 Logic level outputs fur more functions, servo control or SUSI

Like all ZIMO decoders: software updates over the rail (without opening the loco)

All the usual ZIMO features: extended function mapping, lighting effects, HLU etc.

Locomotive adapter boards for sound decoders

... more than just plugging in the decoder

ZIMO sound decoders (MX644 or MX645 as) hardly need expansions in terms of their outputs, because they already have up to 10 function outputs plus 2 servo outputs. The adapter boards support extra tasks for which there is often a requirement:

- **Large solder pads**, especially for the function outputs facilitate installation, when, for a variety of reasons, common terminals (positive lines) are used several times.
- An **additional rectifier** on each adapter board (any model) increases the overall performance of the decoder by 50% to a total current of 1.8 A, so a 00/ H0 decoder is also good for "small" large scale vehicles and can be very useful when there is not enough room for a true large scale decoder).
- Depending on the design of **energy storage** on the board itself (for HLU or RailCom gap balancing, avoiding sound interruption, is not sufficient for driving over gaps in power supply) or an improved interface for external energy storage (gold caps).
- Depending on the version of adapter board a voltage regulator for a functional low voltage of 1.5 V or (optionally) 5 V is included. With the help of the 5 V voltage, for example, servos can be operated (control lines for two servos are present on ZIMO decoders anyway).

There are two basic types (families) of the adapter boards:

- **ADAPLU**: Adapter Board for PluX-22 Decoder, in particular for the **MX645P22** (in non-sound applications for the MX633P22), Version ADAPLU15 and ADAPLU50 with low-voltage function output 1.5 V or 5
- **ADAMTC**: Adapter Board for MTC-21 Decoder, in particular **MX644D**, Version ADAMTC15 and ADAMTC50 with low-voltage function output 1.5 V or 5

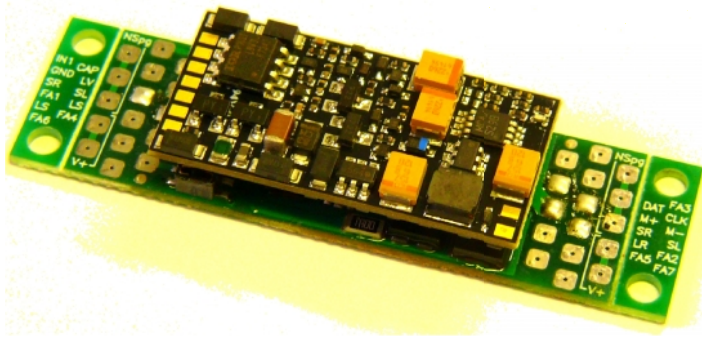
Differences between the PluX and MTC Solutions:

ADAPLU + MX645P22

10 function outputs
external energy storage with 16v Elkos
Dimensions of combination: 45 x 15 x 8 mm

ADAMTC + MX644D

8 function outputs
also with Goldcaps, total voltage min. 16V
45 x 15 x 6 mm (therefore thinner !)



The photo on the left shows an adapter board ADAPLU plugged with a sound decoder MX645P22 (which type - ADAPLU15 or ADAPLU50 - is not visible because components are under the decoder).

Together, this combination forms a "medium" size sound decoder, with capabilities between small scale decoders (like the MX645 by itself) and the large scale decoders.

PRICE: These are not exactly determined at the time of printing, approximately €14 (without Low Voltage outputs) or €24 (with low voltage output), the combination of adapter and sound decoder probably between €99 and €115.



New from Heinz Däppen ...

The following sound projects can be announced; the projects are either completed or on the way to completion.

Not Country Specific

- Light railway 1 cylinder loco

HSB

- Kö

RhB

- Gm 4/4 MAK 241
- Ge 4/6 353

SBB

- E/e 3/3 Shunting loco with Winterthur diagonal drive rod

USA

- Shay coal fired
- Shay oil fired, using original recordings from the Yosemite Mountain Sugar Pine Railroad
- Virginian 2-6-6-6 large articulated steam locomotive, Allegheny class
- Rio Grande L131 2-8-8-2 large articulated steam locomotive
- Dash 8

New Sound Provider: Artol s.r.o (Slovakia)

The following "coded" sound projects will soon be available for download from the ZIMO Sound Database. A load code is required (as in "Däppen projects"), and must be purchased in order to use the sound project in a particular decoder. See (for more details) <http://www.zimo.at/web2010/sound/soundprojectprice.htm>

Steam

- Class 498.1 Albatros
- Class 556.0 Stoker

Electric

- Class 240
- Class 242

Diesel

- Class 721
- Class 751/752 Bardotka aös Zamracená
- Class 753/754/750 Okuliarnik
- Class 781 Sergej
- Class 810

Revision of the ZIMO Sound Database

The ZIMO Sound Database (available at www.zimo.at, Menu "Update & Sound") will be extended not only through more sound projects, but also expanded functionality. In the forthcoming version, the projects can be sorted and filtered according to various criteria to make it easier to find specific projects.

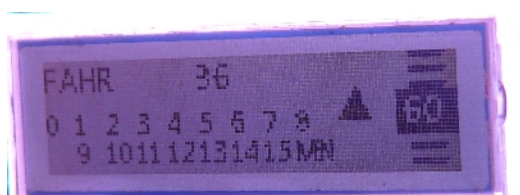
The free sound projects ("Free D-load", ie without charge, and used without load code) come in a revised editions, unified in terms of functional assignments, and exempt from special settings that only suitable for certain models are. In some cases, there are detailed installation instructions with the sound projects.

Development: Base Station MX10 and MX32 Controller



Due to staff shortages (especially in relation to the PCB layout), and many urgent activities in the decoder sector, the **new MX10 digital centre** is unfortunately not ready to be delivered ...

In the meantime, however, software development continues. In the image below is an example of the (not yet final) display for the local driving function.

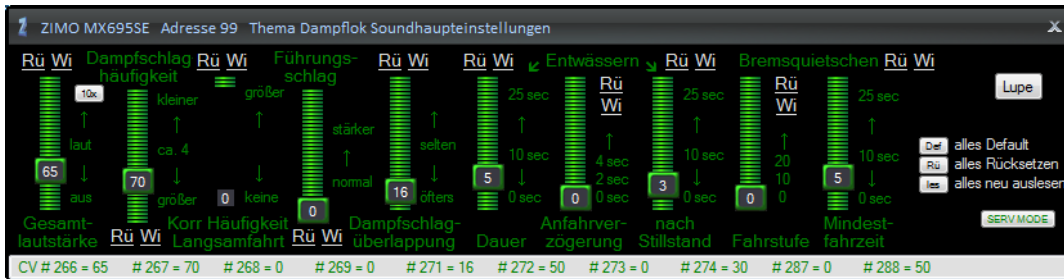


For the cab MX32, the software version 1.11 is in the pipeline, with numerous improvements and extensions:

- Complete configuration and operation of the MX9, including module addressing, displaying the detected vehicle addresses on the main sections.
- Updating and loading of images, texts, etc. with a new marking system, so the actual update process can be carried out later (but only effective for the following update)
- Service mode and operational mode addressing and CV-reading/writing for accessory (solenoid) decoders.
- Delete option for switch panels.
- New writings e.g. diagram corrections.

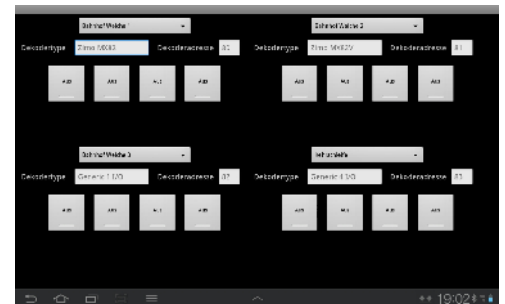
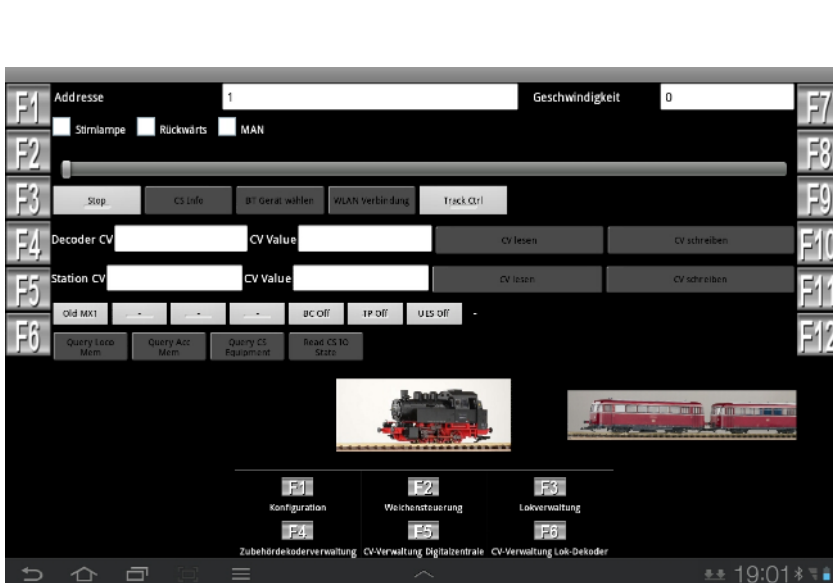
Currently in development: The New ZIRC

In the screen shots below is one of the current development results, the value adjustment for the topic "Steam Locomotive Main Settings" show an important part of the Sound Decoder configuration. In the first picture all current values are shown in green, i.e. they were in the service mode (programming track) read out or confirmed. The second picture shows the case that some of the settings were changed in the operational mode (i.e. on the main line) and the yellow colour means that no acknowledgment has been received for these changes (in this case because the base station has no RailCom functionality).



Currently in development: RailManager from W. Marschmann

Wolfgang Marschmann ("Model railway Consultant W. Marschmann ") continues to work on the SmartPhone App "RailManager". In the last ZIMO Newsletter (January 2012), examples of a driving screens were seen, in the following screens are examples of configuration screens:



Control Panel Software ESTWGJ – Version 6

Version 6 is coming soon and will first be demonstrated at Intermodellbau Dortmund. The changes mainly affect the command and the route setting (auto). Comfortable editing of the routes will also be made available.

RailCom is a Trademark of Lenz GmbH.