Newsletter – JULY 2016

ZIMO

ZIMO ELEKTRONIK GmbH   Schönbrunner Strasse 188   1120 Wien   Austria
T 0043 (1) 8131007-0   www.zimo.at   office@zimo.at   www.facebook.com/zimo.elektrik

MiWi

Software Release 1.19.0001 for MX10 & MX32

Activation of the LAN Interface on the MX10

The ZIMO Command Station – MX 10 device, front side

LAN socket on the back of the device

Ethernet-Cable from the LAN-socket to the Router

With the new software for the digital command station - the MX10 - an essential step towards the completion of the capabilities of the current ZIMO system has been completed.

Connection to a computer or computer network is made possible via the LAN interface. Via the router connected to the same network, apps on smartphones and tablets can be used to control the layout.

One of the most important apps used via the LAN (WLAN) interface will be the "Roco" apps and the Z21 driver apps.

In the photo is the MX32FU - →
the ZIMO cab or controller - next to a smartphone with the "Roco" app on the screen. Both communicate wireless with the ZIMO command station MX10, in the first case on the ZIMO internal MiWi wireless system, in the second case (smartphone app) over WLAN. In the depicted situation, the identical vehicle is on both input devices selected, in the foreground, the "Roco-app" is responsible, and the MX32 will overwrite the current data (speed, direction, functions) and the LEDs on its display, and reports on the top of the screen that an XPress unit has control, currently (only the "Roco App" = Xpress Protocoll over radio).

WLAN

MiWi

Router, preferably with IP address 192.168.1.xx; as this is already preset in the MX10 – and no configuration is required (although changes are possible).
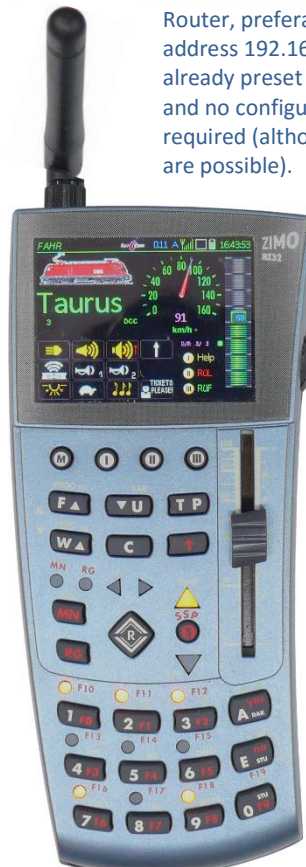
WLAN

Also already available via LAN is ESTWGJ, the railway control program of H.-W. Grandjean, and Rocrail, a non-commercial software system for controlling model trains on Windows, Linux, etc. with apps for iPhone and Adroid, and with operation via web browser, etc. (more on next page).

Planned next is the direct integration of the Rail Manager App of Marschmann Model Trains - an app for tablets. This is particularly important due to the "AOS's" contained therein (the freely programmable "Automatic Operating Sequences", or AOS).

Decoder Test and Connector Boards (in German: Test-und-Anschluss-Platinen)
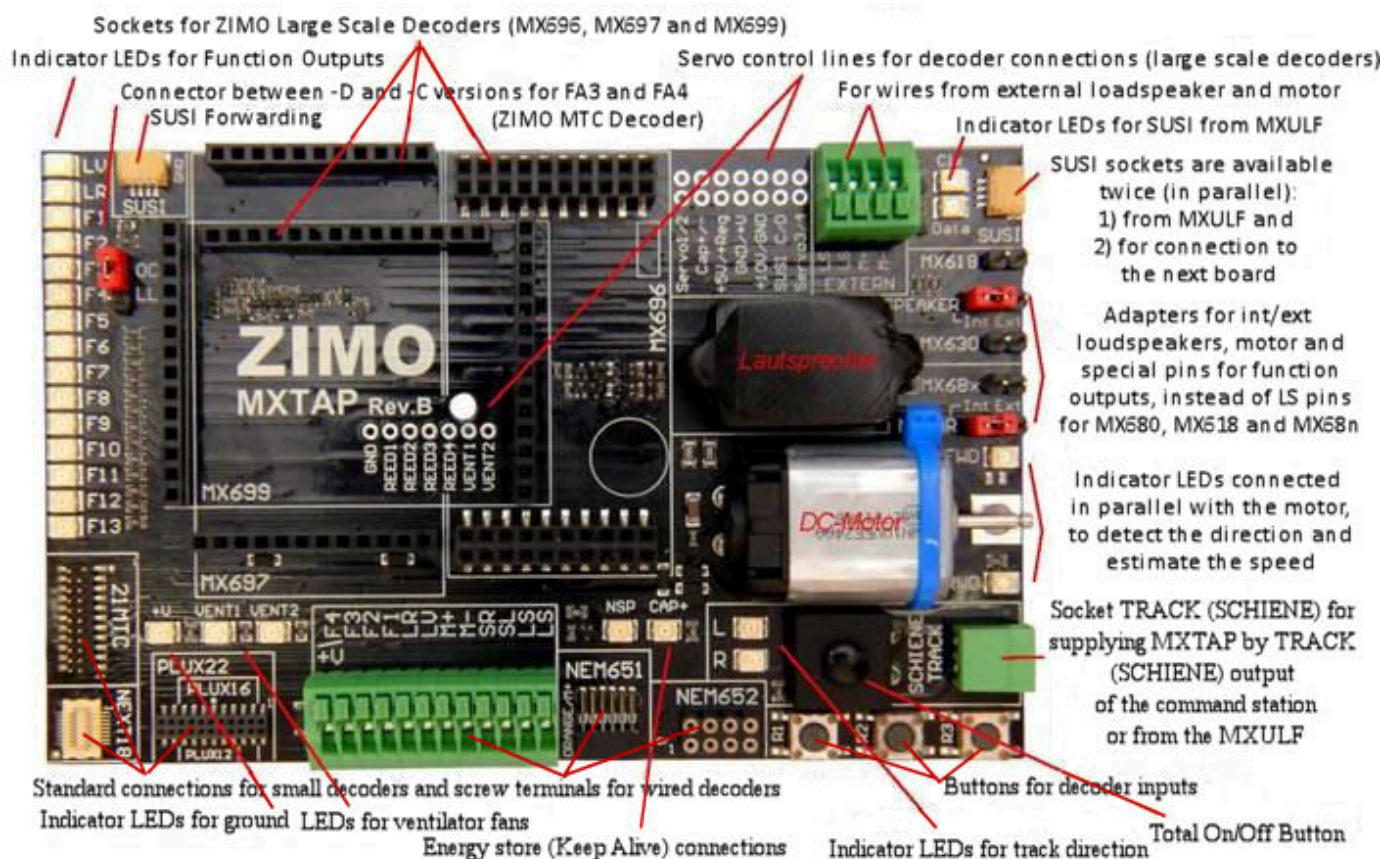
MXTAPS and MXTAPV

Testing, software updating and sound project loading

ZIMO Decoder Test and Connector Boards have been shipped since September 2015. As a result of feedback from users, we have now made some improvements and enhancements, and issued **new** versions of *MXTAPS* and *MXTAPV*. Since only a small number (about 100) of the previous boards were delivered, the same product names have been retained. At first glance, the new boards are distinguished by their colour (now black instead of green); the pictures below show the MXTAPV version.

The ZIMO Decoder Test and Connector Boards are simultaneously testing and docking stations for the decoder software update and sound project loading; they are preferably used together with the ZIMO decoder update and sound-loading device, the MXULFA, but also with other ZIMO devices, such as the MX10, and can be used with older ZIMO digital systems and third-party systems. The basic features are:

- Support the connectors for all currently ZIMO decoders interfaces as of mid-2015), e.g. PluX12, -16, -22, Next-18, 21MTC, NEM651, NEM652 (all NMRA or VHDM standards), as well as the large scale interface connections of MX696, MX697, MX699 (ZIMO proprietary arrangements), as well as 12 terminals for decoders with wires,

- Two versions: MXTAPS with standard interfaces for small scales, MXTAPV with additional interfaces for ZIMO large scale decoders.

- Connections for MXULF or ZIMO base unit or other digital centres via double terminal block "TRACK" connectors, and optionally (when sound loading should be done via SUSI) with "SUSI" cable.

- To test decoders, on the board, the following are available: DC motor, speaker (1 Watt), various LEDs for function outputs and fan outputs (large scale), servo terminals (large scale), and wire connections to external loads.

- ON/OFF switch (to make it easier to plug in the decoder without power)

- 3 keys for testing the inputs of the decoder (for example, to replace the cam sensor, which controls the steam chuffs)

- Shift jumper for "normal" or "logic" function outputs for decoders with the MTC interface (MX634D, -C, MX644D, -C)

- Additional terminals for external motors and speakers: useful if speakers are to be tested,

- various additional control LEDs, for example, for SUSI pins, low-voltage, and energy storage connections.

With MXTAPS or MXTAPV 3rd-party products can also be connected and tested (decoders from other manufacturers). For software update and sound loading, of course, the respective matching programmer of that manufacturer must be used..

Sockets for ZIMO Large Scale Decoders (MX696, MX697 and MX699)
Indicator LEDs for Function Outputs
Connector between -D and -C versions for FA3 and FA4
SUSI Forwarding
(ZIMO MTC Decoder)
Servo control lines for decoder connections (large scale decoders)
For wires from external loadspeaker and motor
Indicator LEDs for SUSI from MXULF
SUSI sockets are available twice (in parallel):
1) from MXULF and
2) for connection to the next board
Adapters for int/ext loudspeakers, motor and special pins for function outputs, instead of LS pins for MX680, MX618 and MX68n
Indicator LEDs connected in parallel with the motor, to detect the direction and estimate the speed
Socket TRACK (SCHIENE) for supplying MXTAP by TRACK (SCHIENE) output of the command station or from the MXULF
Standard connections for small decoders and screw terminals for wired decoders
Indicator LEDs for ground   LEDs for ventilator fans
Energy store (Keep Alive) connections
Buttons for decoder inputs
Indicator LEDs for track direction
Total On/Off Button

Applications MXULFA + MXTAP

MXTAPV (could also be **MXTAPS**) with decoder MX644D (using MTC interface), connected to **MXULFA**:
Supply of "Power" on MXULFA port, 2-wire socket of "TRACK (SCHIENE)" of (MXULFA) connected to "TRACK" of (MXTAPV), a **decoder update** on MXULFA has just started (as indicated on display), the decoder software comes **from the USB stick**.
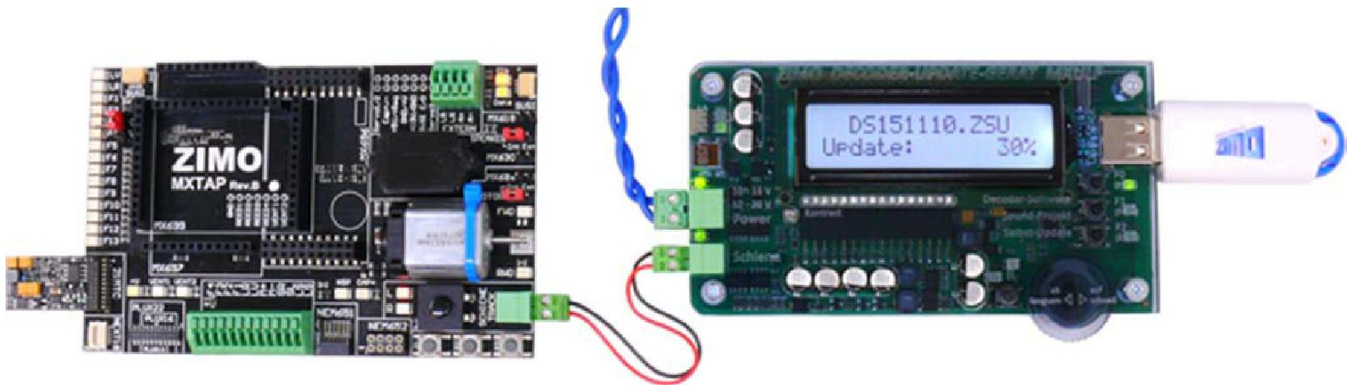
MXTAPV with attached large scale sound decoder MX696V,   connected with **MXULFA**:
on the MXULFA **sound loading** has just started (as   indicated on display) and the sound project comes **from the USB stick**.
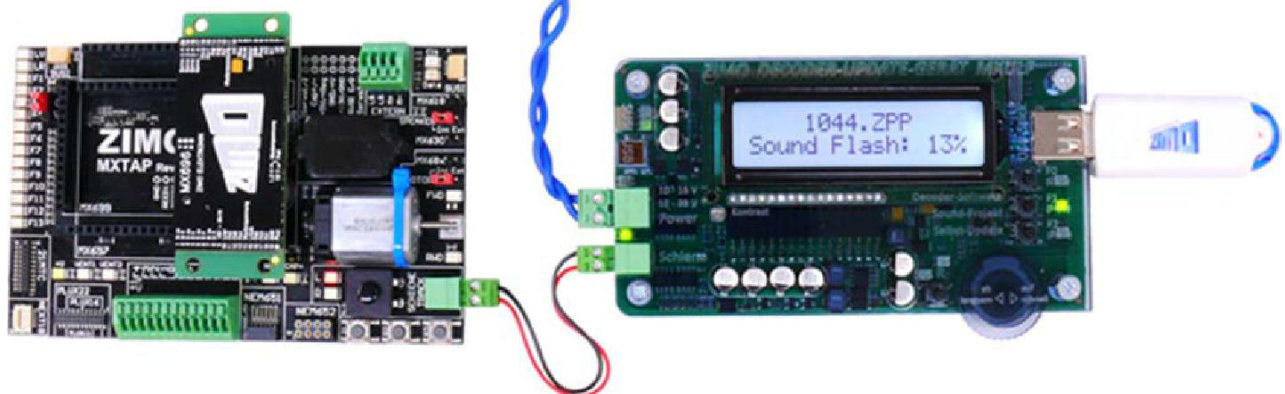

MXTAPV (could also be **MXTAPS**) with decoder MX645P22 (PluX interface), connected to **MXULFA**:
additionally a SUSI cable between MXULFA and MXTAPV to perform **fast sound loading via SUSI** (about **1 minute instead of 20 min**), MXULFA is controlled in this case **from the computer** (usually via the software ZSP - ZIMO Sound Programmer; therefore no USB Stick but a USB cable to the   computer instead; the display shows information about communication between PC and MXULF, but not   about the sound project).
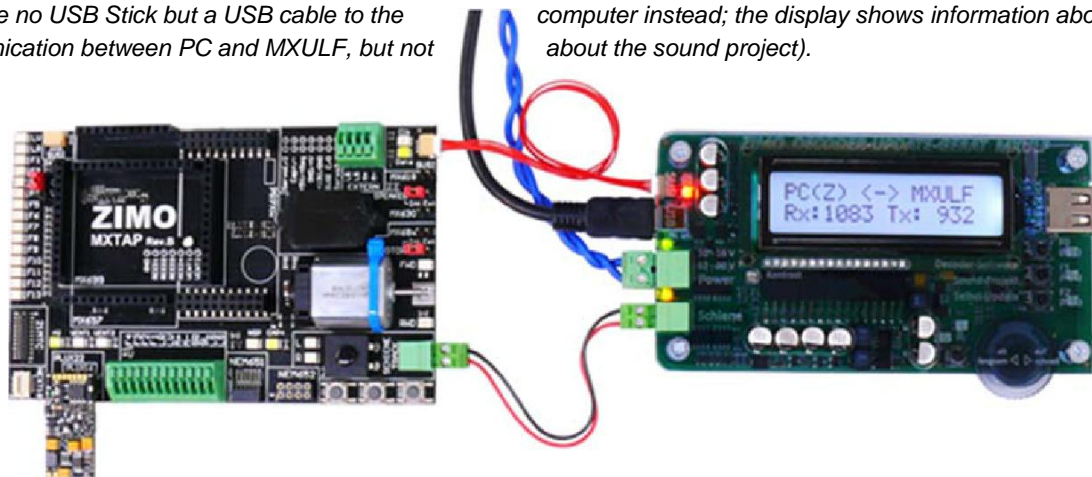
MXTAPV (could also be **MXTAPS**) with decoder MX658N18 (Next interface), connected to **MXULFA**:
Via control LEDs and display of MXULFA, just a test operation can be made, i.e. test motor control, test function outputs, test sounds of sound decoder.
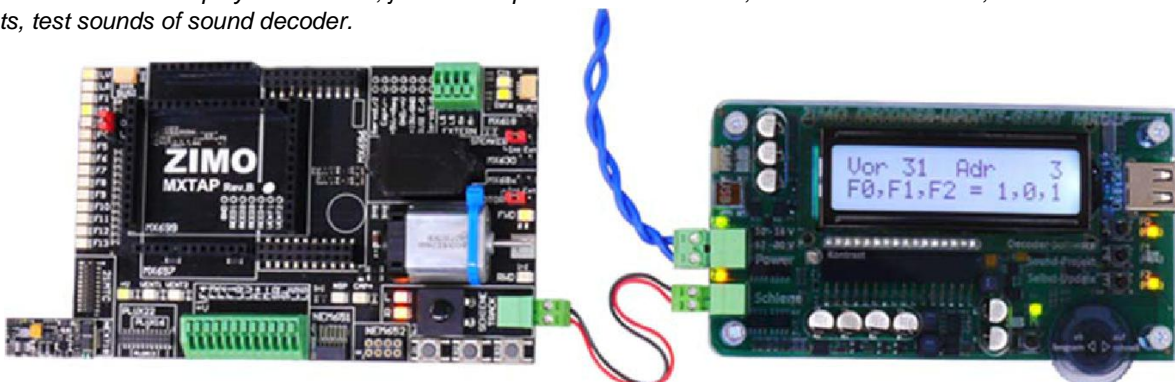
Currently you can choose among these US sound projects
The list is continuously extended by sound authors Heinz Däppen and Quang Nguyen

ZIMO Sound Databaset List for USA					Saturday, 2 July 2016	
Gauge	Traction	Class	Type	Author	Date	Project#
Narrow	Steam	0-4-0 (LGB 2017)	Coded	Heinz Däppen	Aug 10	ZSP00172
Narrow	Steam	Climax Type B	Coded	Heinz Däppen	Jun 13	ZSP00078
Narrow	Steam	Colarado & Southern Mogul #9	Coded	Heinz Däppen	Nov 15	ZSP00630
Narrow	Steam	D&RGW C-16 (Holzbrenner)	Coded	Heinz Däppen	Nov 09	ZSP00143
Narrow	Steam	D&RGW C-16 (Kohlebrenner)	Coded	Heinz Däppen	Nov 09	ZSP00081
Narrow	Steam	D&RGW C-19	Coded	Heinz Däppen	Dec 15	ZSP00268
Narrow	Steam	Forney	Coded	Heinz Däppen	Dec 15	ZSP00028
Narrow	Steam	Heisler	Coded	Heinz Däppen	Nov 09	ZSP00032
Narrow	Steam	Industrial Mogul	Coded	Heinz Däppen	Oct 15	ZSP00631
Narrow	Steam	K-27	Coded	Heinz Däppen	Dec 15	ZSP00003
Narrow	Steam	Logging Mallet 2-6-6-2	Coded	Heinz Däppen	Dec 15	ZSP00079
Narrow	Steam	Mogul 2-6-0 (LGB)	Coded	Heinz Däppen	Aug 10	ZSP00171
Narrow	Steam	Mogul 2-6-0 (PIKO)	Coded	Heinz Däppen	Apr 13	ZSP00347
Narrow	Steam	Shay (3 cylinder) Oil Burner	Coded	Heinz Däppen	Oct 15	ZSP00572
Narrow	Steam	Shay 2 Cylinder (Small)	Coded	Heinz Däppen	Aug 15	ZSP00501
Narrow	Steam	Shay 2 Cylinder (Small)	Coded	Heinz Däppen	Aug 15	ZSP00503
Narrow	Steam	Shay 2 Cylinder (Small)	Coded	Heinz Däppen	Aug 15	ZSP00502
Narrow	Steam	Sumpter Valley 2-6-6-2	Coded	Heinz Däppen	Nov 09	ZSP00146
Narrow	Steam	Uintah Mallet 2-6-6-2	Coded	Heinz Däppen	Nov 09	ZSP00080
Standard	Diesel	ALCO C425	Free	Art Luescher	Dec 14	ZSP00265
Standard	Diesel	Amtrak GE Genesis	Coded	Heinz Däppen	Aug 10	ZSP00170
Standard	Diesel	Davenport 0-4-0	Coded	Heinz Däppen	Mat 16	ZSP00144
Standard	Diesel	EMD 12-567 - Class SW9, SW1200, G12, NW-2, NW-3, NW-5, SW-7W-9 & GMD-1	Free	ZIMO	Mar 16	ZSP00726
Standard	Diesel	EMD 16-567 - Class F9, GP9 & SD9	Free	ZIMO	Mar 16	ZSP00725
Standard	Diesel	EMD 16-645E - Class GP38, GP38-2, SD38, SD38-2, NSWGR 422 Class, Victorian Railways X class (2nd & 3rd series) & EMD G26	Free	ZIMO	May 16	ZSP00779
Standard	Diesel	EMD 16-645E3 - Class GP40, GP40-2, GP40P, GP40P-2, GP40TC, SD40, SD40A, SD40-2, SD40T-2, SDP40, SDP40F, F40PH, WAGR L Class, VR C Class, AN BL Class, GT26CW & DSB Class MZ	Free	ZIMO	Mar 16	ZSP00724
Standard	Electric	Streetcar	Coded	Heinz Däppen	Nov 09	ZSP00147
Standard	Gas Turbine	Union Pacific GTEL	Coded	Heinz Däppen	Apr 16	ZSP00734
Standard	Steam	American Standard 4-4-0	Coded	Heinz Däppen	Oct 15	ZSP00573
Standard	Steam	Big Boy 4-8-8-4	Coded	Heinz Däppen	Aug 15	ZSP00500
Standard	Steam	Gypsy Donkey 0-4-0	Coded	Heinz Däppen	Nov 09	ZSP00145
Standard	Steam	Hudson 4-6-4	Coded	Heinz Däppen	Nov 09	ZSP00148
Standard	Steam	Norfolk & Western J Class	Coded	Heinz Däppen	Nov 15	ZSP00627
Standard	Steam	Southern Pacific AC-11 Cab Forward	Coded	Heinz Däppen	Apr 16	ZSP00735
Standard	Steam	Union Pacific FEF 4-8-4	Coded	Heinz Däppen	Apr 16	ZSP00733