

Z21 Novelties 2020

The digital control system for beginners and experts

Roco **FLEISCHMANN**

Z21

Model train control

www.Z21.eu

www.roco.cc | www.fleischmann.de

Dear Modelleisenbahn friends,

so you already have a popular Z21 control system from ROCO and FLEISCHMANN to call your own but want to know what expansions there are to take you into the world of digital model railways?

Then we have a wonderful new arrival for you. In this brochure, we present to you a digital 'Swiss watch' that will help you to easily configure, update and control your model railway system. It's never been so easy to use your digital model railway components!

And fans of large gauges can rejoice! With our XL series, owners of engines and cars in 0, 1 and garden gauge now have the opportunity to use professional Z21 controls for up to 6 amperes. The benefits and convenience of the Z21 system are combined with the necessary high output.

To whet your appetite and to show you what's possible with digital models, we'd also like to present the EDK 750 digital railway crane! Lift, lower, turn and much more - it's what model railway is all about!

In this spirit, we'd like to wish you great pleasure in exploring the new digital Z21 products!

Your ROCO/FLEISCHMANN team



MIBA Faszination Gartenbahn 1/2020, Photo Martin Graf

Photo realistic driver's cab - Operate like a real engine driver!



- 1 Speed display
- 2 Traction current and battery current display
- 3 Speed notch switch to set up and speed up
- 4 Brake lever
- 5 Door controls for opening and closing
- 6 Operational function keys

The digital model railway world brings many benefits, one of which is that you can take control via a virtual driver's cab. Let yourself be thrilled by the photo-realistic display! They are equipped with original switches, controls of the respective locomotive model and interactive controls. Each control button and lever can be selected and causes the prototypical action of your locomotive.

In addition, there will be triple growth in 2020! Then the Z21 app includes 11 individual driver's cabs, such as those of the Accumulator Railcar class 515, which is only waiting to be controlled by you.



Z21 pro LINK

A further step into the future!

Simply connect to a zLink-capable device and get started!

Wow! Look what this little digital Swiss Z21 army knife can do: It makes configuring and networking of your Z21 hardware even simpler and more convenient. In addition, the Z21 pro link also stands out thanks to easy operation and the ability to keep up to date with updates.

Configuring

- ▶ Directly via the installed display and buttons. Everything in plain text; no detours.
- ▶ Large and convenient via the webpage on your PC or Smartphone. The integrated web server automatically detects the connected device.

Updates

- ▶ Always keep your Z21 system up to date.
- ▶ With the Z21 Update App for iOS and Android.
- ▶ Via PC with the Z21 Maintenance Tool.

Controlling

- ▶ The dream of the „Internet of Moba Things“ or IoMT for short has become reality.
- ▶ Communication with control commands and status queries directly via WLAN.



With mobile device



With PC



Direct configuration with buttons and display

Configuration and networking of your Z21 components at a new level. Typical Z21!



Compatible with:
Z21 single BOOSTER
Z21 dual BOOSTER
Z21 signal DECODER
Z21 switch DECODER
and future devices



- 10838
- ▶ No complex CV tables
 - ▶ Integrated web server
 - ▶ Installed WLAN

Z21 XL Series

The popular Z21 is now also ideal for big scales - mit 6 A!

The latest Z21 XL series has been especially designed for the needs of large tracks (0, 1, 2/G) and combines the benefits and comfort of the Z21 system with a high output.

6 A main track power for all track outputs!



10870

The benefits at a glance

- ▶ More output with 6 A 20 V
- ▶ Whole XL series designed for 6 A
- ▶ WiFi management offers good reach and transfer safety
- ▶ Convenient Z21 app and wlanMAUS to manage your whole system

What the Z21 XL series includes

- ▶ Z21 XL series digital command station
- ▶ Plug and cable 6A, 20V
- ▶ WiFi router & plug

In terms of the functions offered by the command stations, the Z21 XL series differs from the Z21 most noticeably due to its 6A main track power for all track outputs. The rail voltage is not adjustable and depends on the plug used. The Z21 XL series features a Z-CAN for a high number of Z21 XL Boosters (10869).

The advantages of our XL series? High-performance output and adjusted shutdown designed for the needs of large rails!

The benefit of your own Z21 XL series is that the high-performance output and adjusted shutdown are designed for the needs of large rails. The high currents not only withstand large model mechanics and robust track materials, but require them. As the Z21 system command station protects all downstream devices on the track from overloading, such as the Z21 detector, it may only be combined with XL series components:

- ▶ Z21 XL Series digital command station 10870
- ▶ Z21 multi LOOP 10797
- ▶ Z21 WLANMAUS 10813
- ▶ Z21 XL BOOSTER 10869
- ▶ Z21 CAN HUB 10804
- ▶ Z21 multiMAUS 10810



10869

The advantages of the Z21 XL BOOSTER

- ▶ More output with 6 A 20 V
- ▶ DCC and Motorola** track format
- ▶ B-BUS
- ▶ CAN-BUS
- ▶ CDE interface
- ▶ RailCom* recipient and transfer to command station (CAN)
- ▶ Short circuit forwarding to command station (adjustable)
- ▶ Firmware update (CAN)
- ▶ RailCom* space (adjustable)

Recommended power supply: 10857 - 120 W Switch-mode power supply with output voltage 20 V and 6 A output current

Z21 switch DECODER



10836

- ▶ Input voltage with 12-20 V DC or with DCC rail voltage
- ▶ 16 outputs for 8 switches via plug-in screw terminals
- ▶ 2 A (2,5 A for 1 second) output voltage per output
- ▶ 2 A (2,5 for 1 second) output voltage from entire module
- ▶ Compatible with DCC and RailCom*
- ▶ Switch numbers 1-2040
- ▶ Dimensions from 104 mm x 104 mm x 25 mm

The Z21 switch DECODER is an all-purpose DCC switch decoder with 16 individual outputs for up to 8 switches or up to 16 consumers such as LEDs and mini light bulbs. It is easy to handle and future-proof due to its updatability.

Therefore, it is ideal for twin coil motors, simple light signals, lighting and the control of relays.

Adjustable outputs

Each of the 8 output pairs can be set to different modes independently of the other. These are already pre-configured and can simply be selected. Each output pair can also be individually dimmed so that lighting can be adapted precisely to requirements.



A separate DC supply can be connected so that the control centre or booster are not placed under unnecessary load. If the wiring should be as simple as possible, the rail signal can also be used as a supply. In addition, the outputs are protected against overload and short-circuits.

Want to set up up to 8 independent switches? Not a problem with the universal Z21 switch DECODER!

Adjustable modes

Standard mode	With defined (configurable) cut-in time, suitable for twin coil motor
Instantaneous mode	For switches and decouplers, switch depending on the duration of actuation on the handheld controller (as for 10775)
Bi-stable continuous operation	Switching on or switching over for lighting and signals (as for k84)
Bi-stable continuous operation 2	Switching on or switching over with bulb simulation
Alternate flash	
Alternate flash 2	With bulb simulation

Programming with RailCom

Massively facilitates the programming via the main track (POM), even in installed condition. Alternatively, it is possible to simply adopt the switch address of the next switch command as the new address for the Z21 switch DECODER by pressing the programming button.



Soon to be released!



10837

Z21 signal DECODER

The Z21 signal DECODER is a universally applicable DCC decoder for complex light signals.

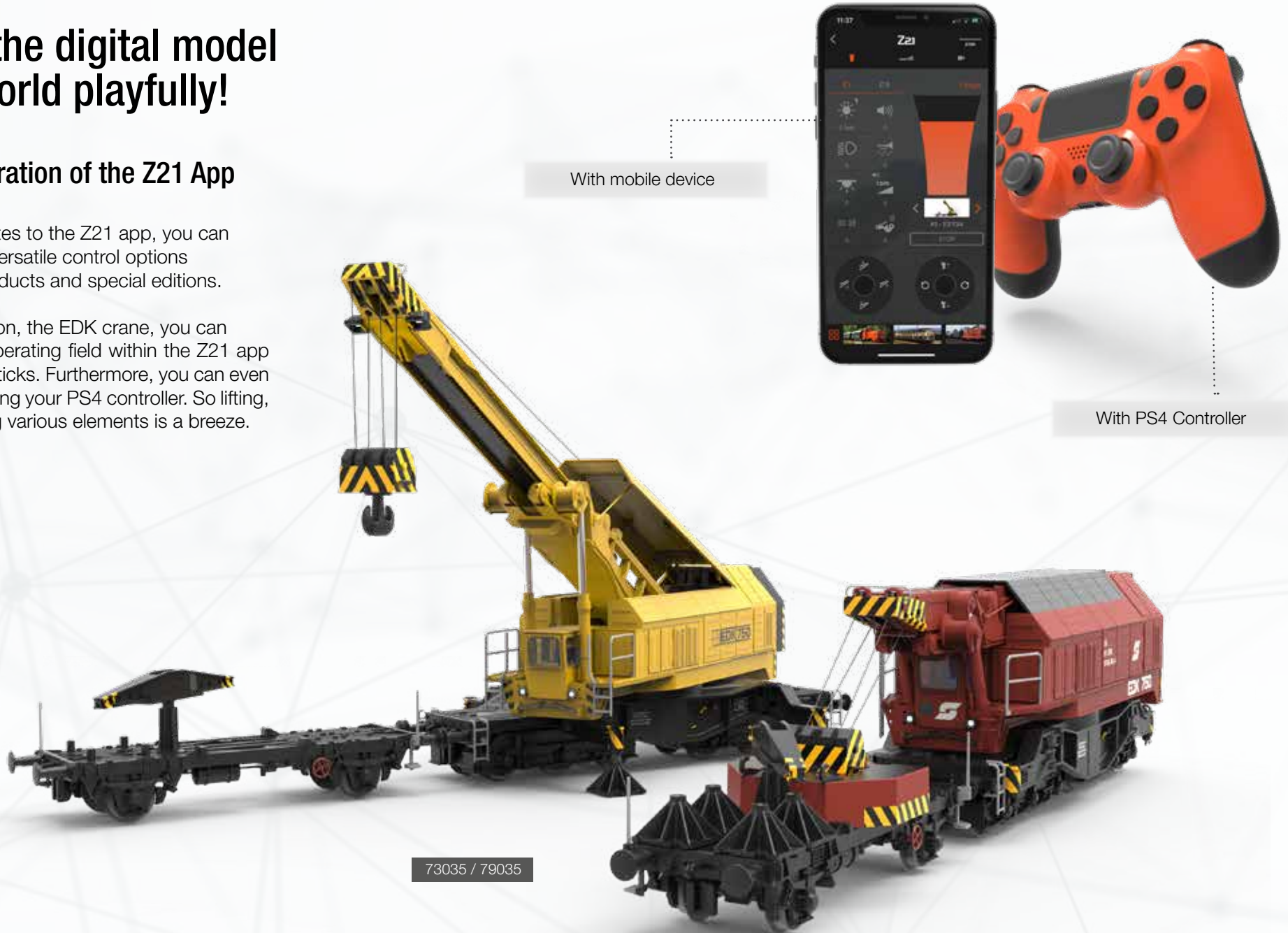
- ▶ Can be independently updated
- ▶ Comprehensively configurable
- ▶ Compatible with RailCom*

Discover the digital model railway world playfully!

Innovative operation of the Z21 App

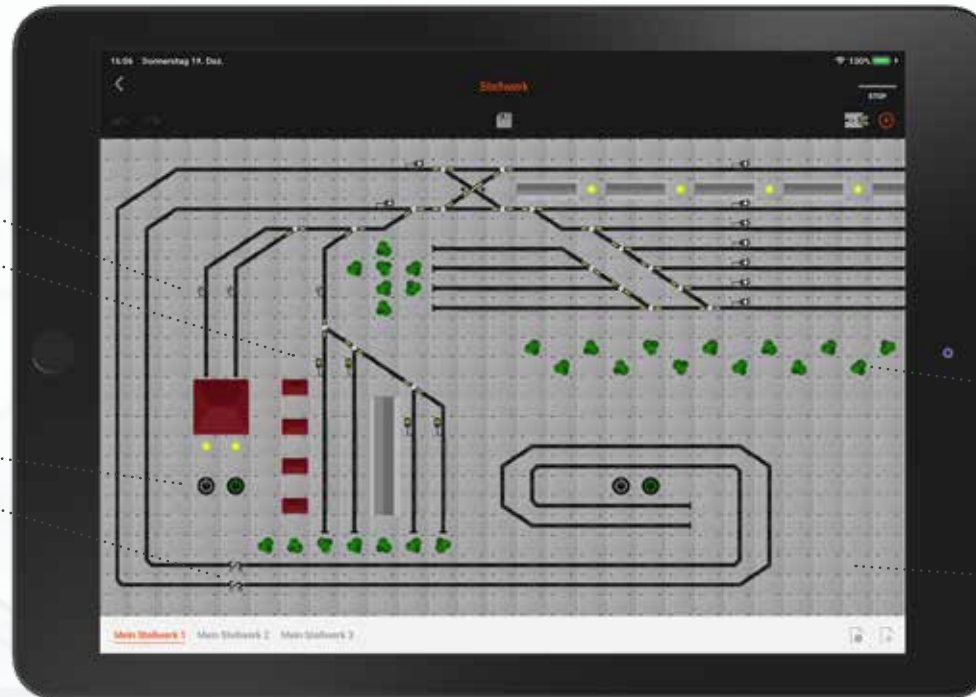
Thanks to our updates to the Z21 app, you can realise flexible and versatile control options to suit the latest products and special editions.

For our special edition, the EDK crane, you can activate a unique operating field within the Z21 app with two analogue sticks. Furthermore, you can even control the crane using your PS4 controller. So lifting, turning and lowering various elements is a breeze.



73035 / 79035

When it comes to the signal box, we're happy to surprise you with a new design and new functions. You can now choose a schematic signal box to create your track plan and suit your needs. Operation was designed based on popular control software programmes, and the design nods to the original control panel.



Semaphore and light signals

Switches and de-couplers

Many elements can be arranged in a small space

Decorative elements such as platforms, trees and houses

Signal box layout just like real control panels

Side size can be adjusted as required

Z21 Updater App

The Z21 Updater app for iOS und Android allows you to always keep your Z21 system up to date. That is how you benefit from all the improvements and new features.

The following devices are supported:

- ▶ Z21
- ▶ z21 and z21start
- ▶ smartRail



The update process is very simple:

- ▶ **Download updates**
When you are connected to the Internet you can easily check for new updates. Those updates are directly saved on your device.
- ▶ **Installing new updates**
Switch to the Z21 network. After connecting to the Z21 device the update can conveniently being installed.



83047



If you would like to find out more about our Z21-Systems, then please visit our website: www.z21.eu

