The black Z21



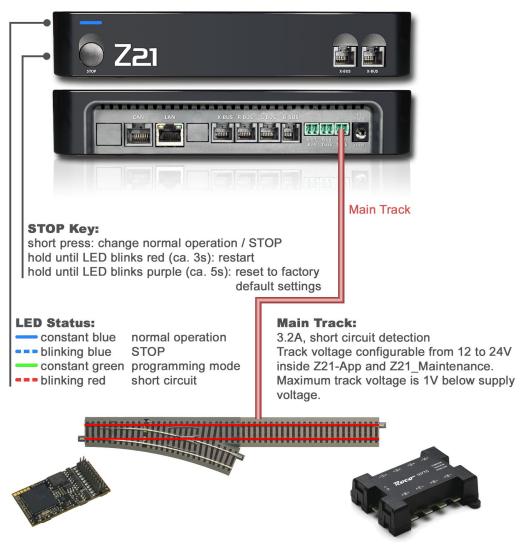
Interface description



FLEISCHMANN

11.2014

Main Track



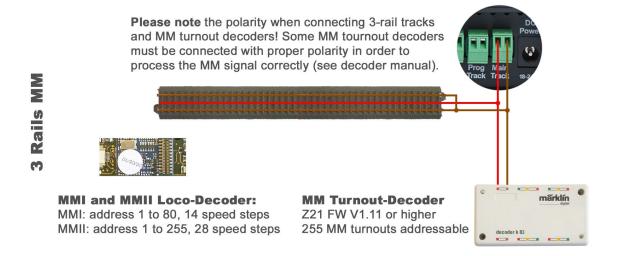
DCC Loco-Decoder

14/28/128 speed steps, F0 bis F28
RailCom (can be switched off)
POM write
POM read (RailCom, Z21 FW V1.22 or higher)
Short address range from 1 to 99

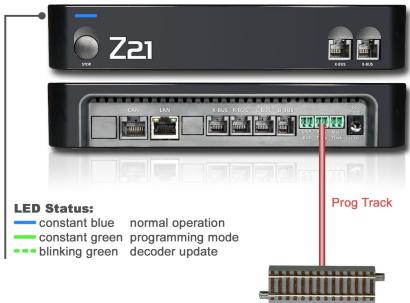
Long address range from 100 to 9999

DCC Turnout- and Signal-Decoder

Configuration of sophisticated decoder by using accessory CV-programming with Z21 FW 1.22 (or higher) and Z21_Maintenance.exe. 2044 DCC-turnouts addressable.



Prog Track



Hint: CV-programming can be cancelled by shortly pressing the STOP key.

CV Programming

according NMRA S-9.2.3 Reading/writing CV bit- and byte-wise in direct mode



MM Programming

6021 programming mode Z21 FW V1.23 or higher



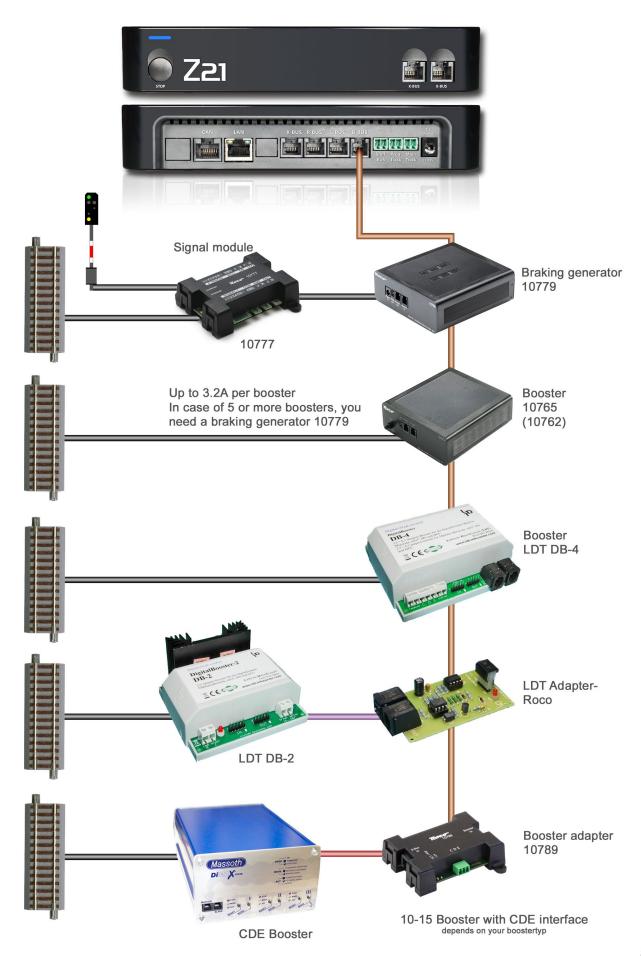
Decoder Update

with Z21_Maintenance.exe for Roco and Fleischmann-decoders (manufacturer Zimo) Feature is in test-phase!

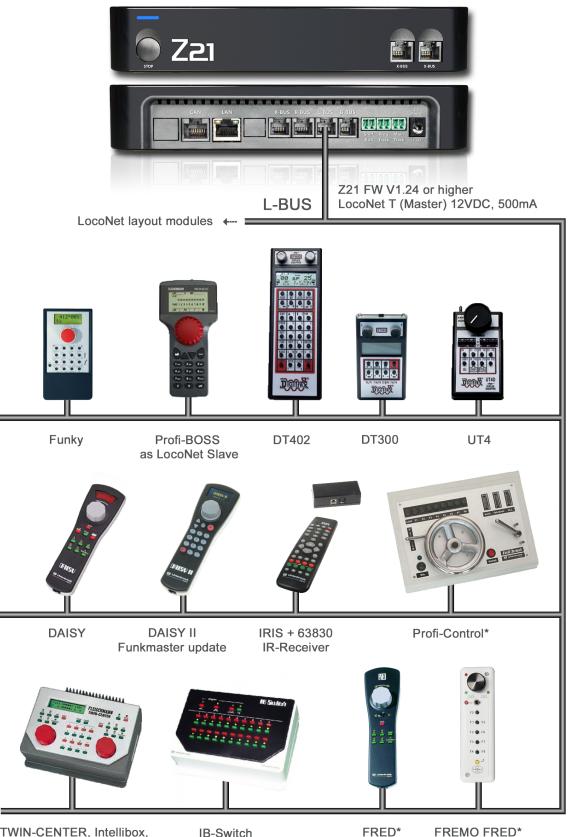
Sniff BUS



Booster-BUS



LocoNet-BUS Part1



TWIN-CENTER, Intellibox, TWIN-CONTROL, IB-Control LocoNet Slave

TWIN-CENTER: slave-mode with FW V2.000 special option 844=1 Intellibox: slave-mode with FW V2.001 special option 844=2 (i.e. LocoNet power source=off)

IB-Switch

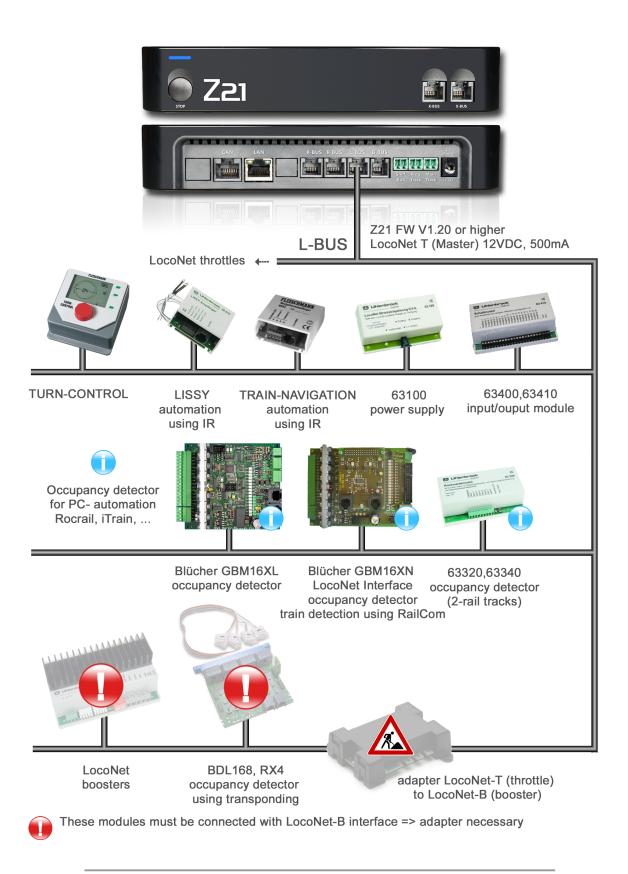
Activating LocoNet slave-mode on * Take over a loco address by **PROFI-BOSS**:

- 1. C + alt
- 2. change MASTER to SLAVE
- 3. confirm

using the dispatch procedure in Z21 Maintenance.exe and App

6

LocoNet-BUS Part2







These modules are not compatible with full bridge power circuits and must not be connected to Z21 or Digitrax command stations.

LocoNet- multiZENTRALEpro





The multiZENTRALEpro is the LocoNet slave. It is powered by the Z21 (12VDC), so **do not use** any power supply for the multiZENTRALEpro. Connect the tracks with the LocoNet master.

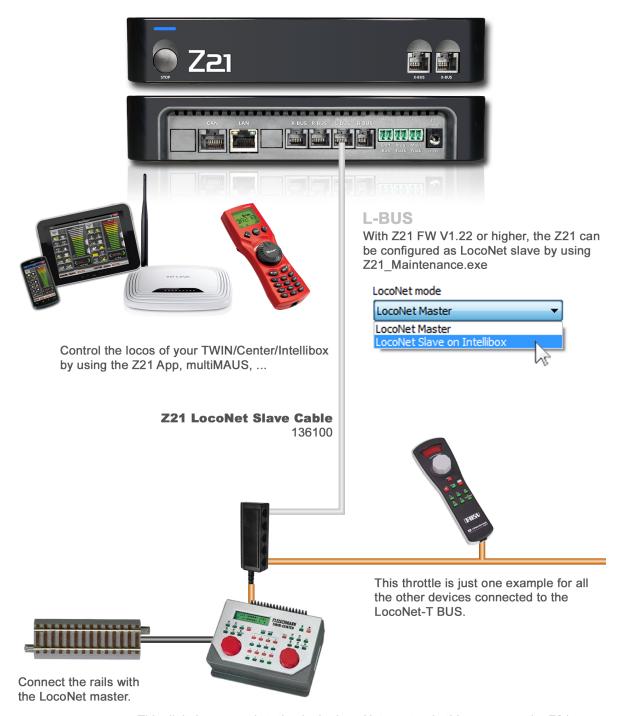
multiZENTRALEpro with 3rd party LocoNet master





The multiZENTRALEpro is the LocoNet slave. It must be connected with the LocoNet master by using the **white cable** (136100) solely. In this case the multiZENTRALEpro must be powered by its own AC adapter.

LocoNet-BUS Slave



This digital command station is the LocoNet master. In this use case, the Z21 is used as gateway between the TWIN-CENTER/Intellibox and all the Z21-throttles or Z21-Apps.It is now possible to control your layout not only with the TWIN-CENTER/Intellibox and its LocoNet throttles, but also with the Z21-App on the smartphone/tablet and multiMAUS at the same time!

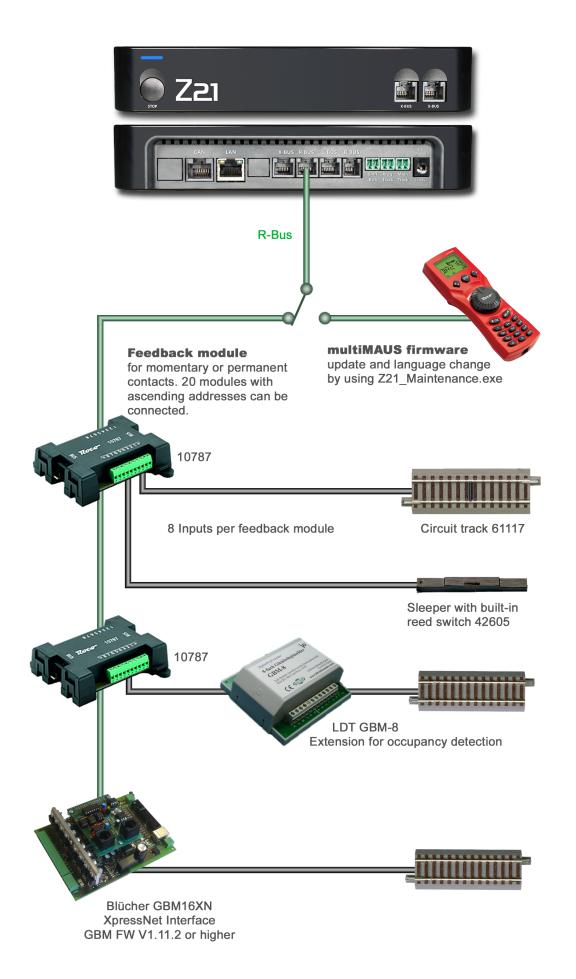
Because the Z21 was not originally planned to be used as LocoNet slave, please consider following information:



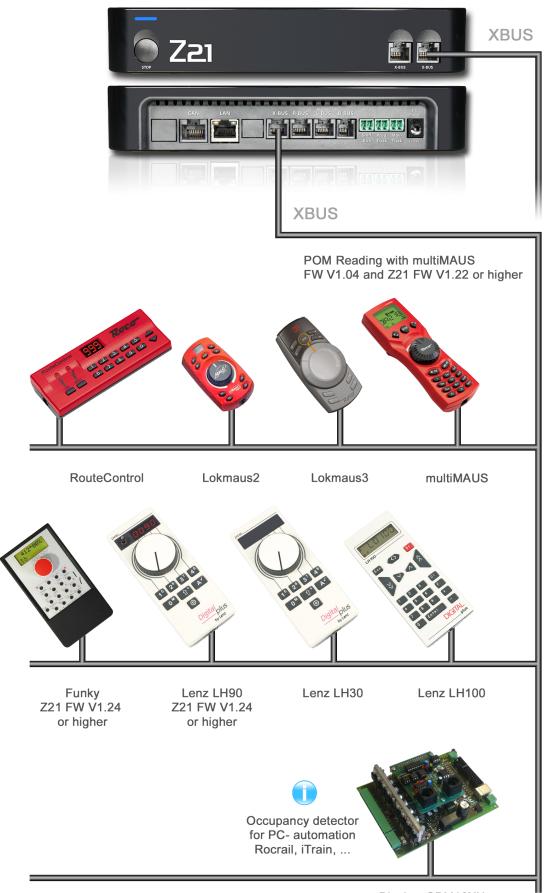
In order to avoid that the Z21 and the exisiting LocoNet master both provide the supply voltage at the same time, the supply voltage must be isolated on the L-BUS-connector (pin1 and pin6) at the Z21.

In order to do so, please use solely the white "Z21 LocoNet Slave Cable" with the spare part number 136100. Please ask your local dealer or buy it online at roco.cc – Service – Spare parts. Using the wrong cable can damage the digital control unit!

R-BUS



X-BUS



Blücher GBM16XN XpressNet Interface Z21 FW V1.24 or higher GBM FW V1.11.2 or higher

LAN mobile







Roco Z21 App





Z21 Updater firmware update













LAN PC









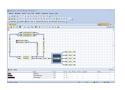




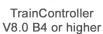




Rocrail Rev. 4635 or higher









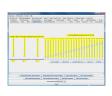


ModellStellwerk V8.20 or higher





Z21 Maintenance firmware update, use WINE for Linux and Mac





JMRI DecoderPro V3.11 or higher





TrainProgrammer V8.0 D1 or higher

CAN



Zimo MX32 Z21 FW V1.25 or higher and Zimo FW V01.15