Gamesontrack®

RUN TRAINS AND CARS
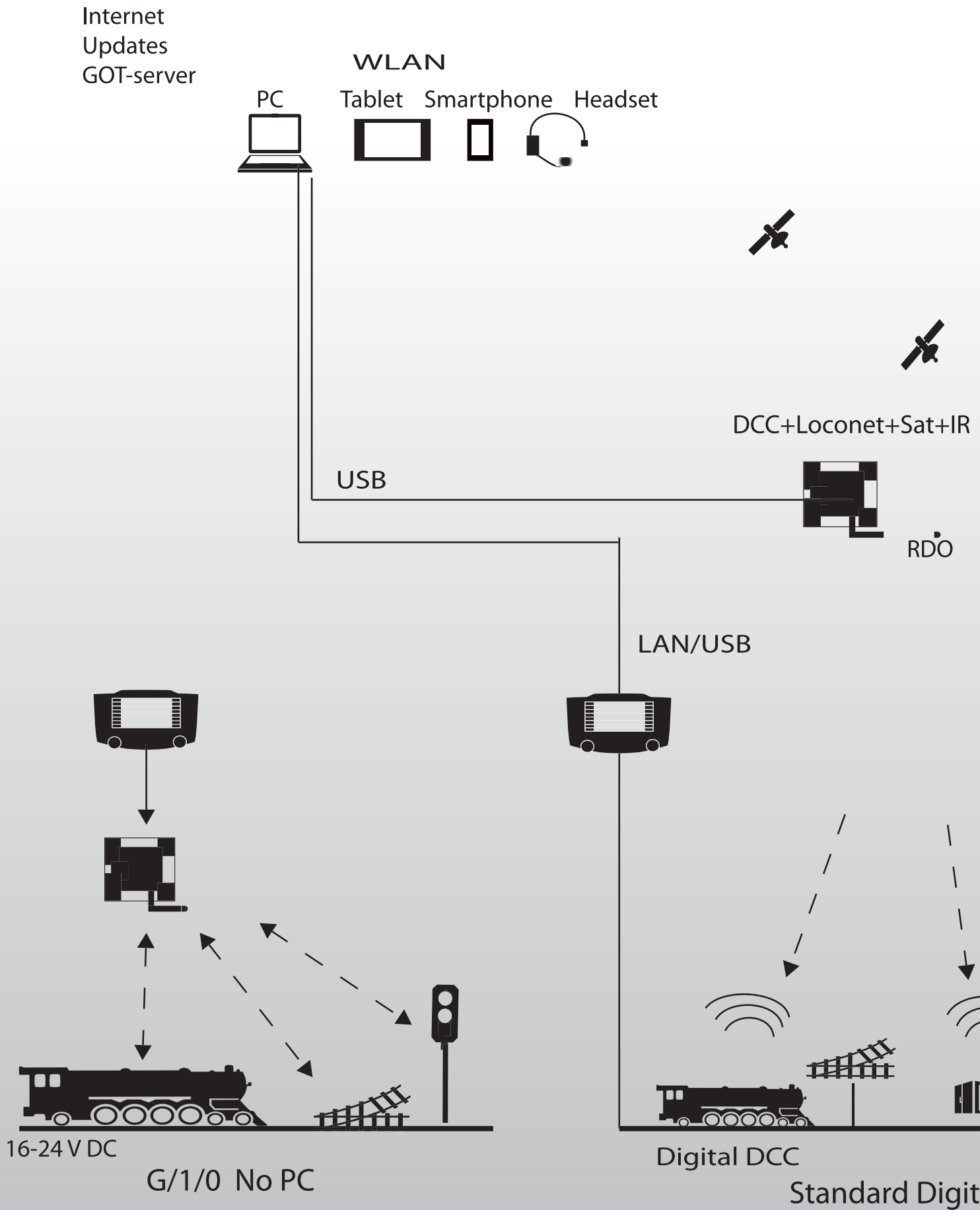## WITH RADIO AND INDOOR GPS

Automate your layout quicker, and easier with no complex wiring,
and let the GPS draw your layout plan.

Use your PC, Smartphone, voice or internet for controlling and gaming with others,
whist deciding for yourself how much automation (anything from fully manual,
to fully automatic) you want, and changing this later is simple too!

How it works!

❷

Internet
Updates
GOT-server

PC

WLAN

Tablet   Smartphone   Headset

DCC+Loconet+Sat+IR

USB

RDO

LAN/USB

16-24 V DC

G/1/0 No PC

Digital DCC

Standard Digit

Gamesontrack®GT-Command and Gamesontrack®GT-Position works with all scales and gauges, on large and small layouts, indoors or outdoors. The advanced GPS control operates via radio providing all vehicles – ordinary model trains, Faller® Cars, LEGO® trains and large scale trains – easy access to distance control, block control, fiddle yards, automatic running, etc. Combining with DCC or other forms of control is also easy to do.

LEGO® Train

G/1/0

16-24 V DC

al N/H0

Loconet

Faller® Car System
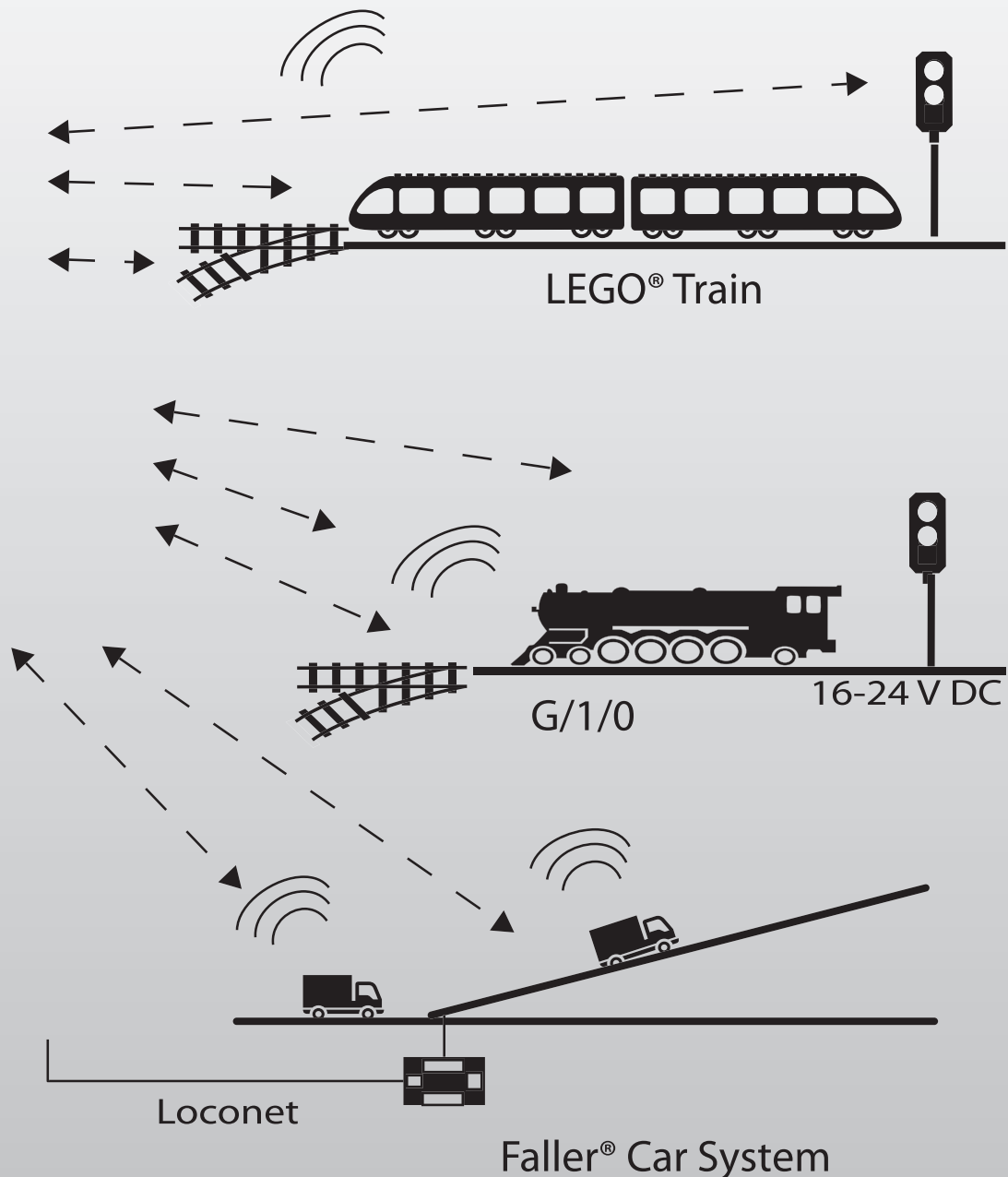
Controlling Model Trains

Control your model trains, turnouts and signals with your PC or Smartphone. Use your mouse, Smartphone/tablet or your voice.

You will need a digital control system with a PC interface (such as Uhlenbrock, Märklin, ESU), which can be connected to your PC.

Install GT-Command and register via the Internet, (This provides you with access to future updates free of charge).

Enter your trains, turnouts and signals into the software, selecting appropriate vehicle types and speed profiles. All your commands pass through the digital control box to the tracks allowing you to see the commands from here as well.

WLAN

LAN/USB

Digital

If you prefer, you can down load the GT-Command Mobile app from App-store or Google Play, and using the same network as your PC, operate with your mobile device directly on your PC with GT-Command's general automation tool, (which is also used for Faller cars, LEGO trains, garden layouts, etc).

With GT-Command you have a base for adding extensions providing positioning, radio control, automation, etc. And (with permission) you can also see other layouts and test these in simulation mode directly on your PC or Smartphone.

C007
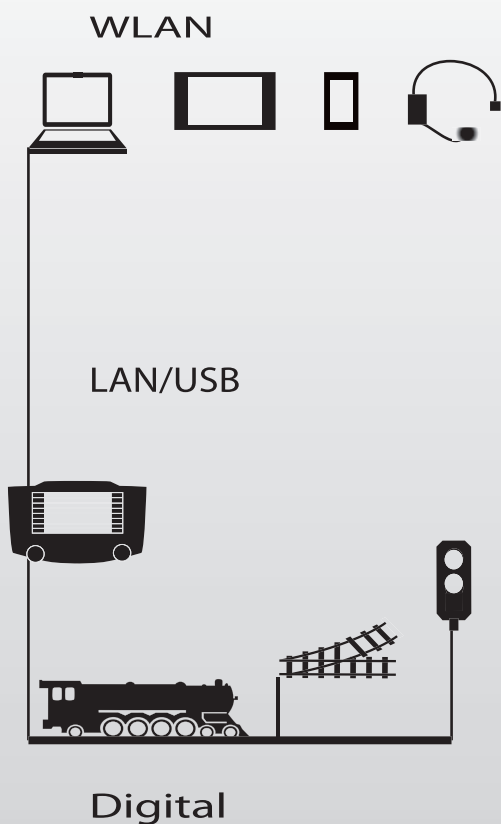
PRODUCTS; WHAT YOU NEED:

GT-Command: 1300003, if running alone.

GT-Command Family: 1300033, if your family join in.

GT-Command Club: 1300043, if the entire club joins in.

EXTRA ACCESSORIES AND EXTENSIONS:

GT-Command Pro: 1300023, when needing a lot of automation routines.

Or buy a Smartphone/tablet user license:

GT-Command Mobile: 1300053.

Control of Model Trains incl. Positioning

GT-Position informs you (in real time) of precisely where your trains are and plots them on your display. Firstly, run your train over all your tracks to draw the layout on the display. The software 'discovers' your turnouts as well, you only have to name them. Draw your blocks with your mouse onto the display. Draw signals and correct any inaccuracies. Your track diagram is then geometrically correct and you are able to zoom into specific sections or combine with more layers/drawings, e.g. fiddle yards. In tunnels without satellites, plotting is done by means of a combination of measuring and calculation, exactly like a normal outdoor GPS.

You place at least 2 satellites over your layout and add a sender per train. The sender can be installed or simply placed in a towed wagon or container. Coverage can be extended and precision increased using more satellites, i.e. 3 pcs. cover 15-20 m2, depending on the form of the layout. Extra sets are necessary for fiddle yards.

GT-Xconnect communicates via radio with the satellites and senders, delivering all distance data to the PC. The PC calculates the position of each train and draws it on the display (capacity is approx. 12 positions per second).

With the positioning system you save wiring, adding feedback modules, track insulation/modifications and time. You can add GT-Position to an existing layout (no need to disturb scenery), or you can just put tracks together and construct a new one. Either way you draw it and draw the virtual blocks.
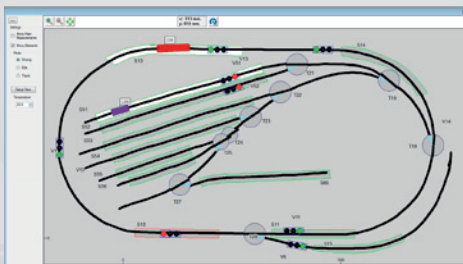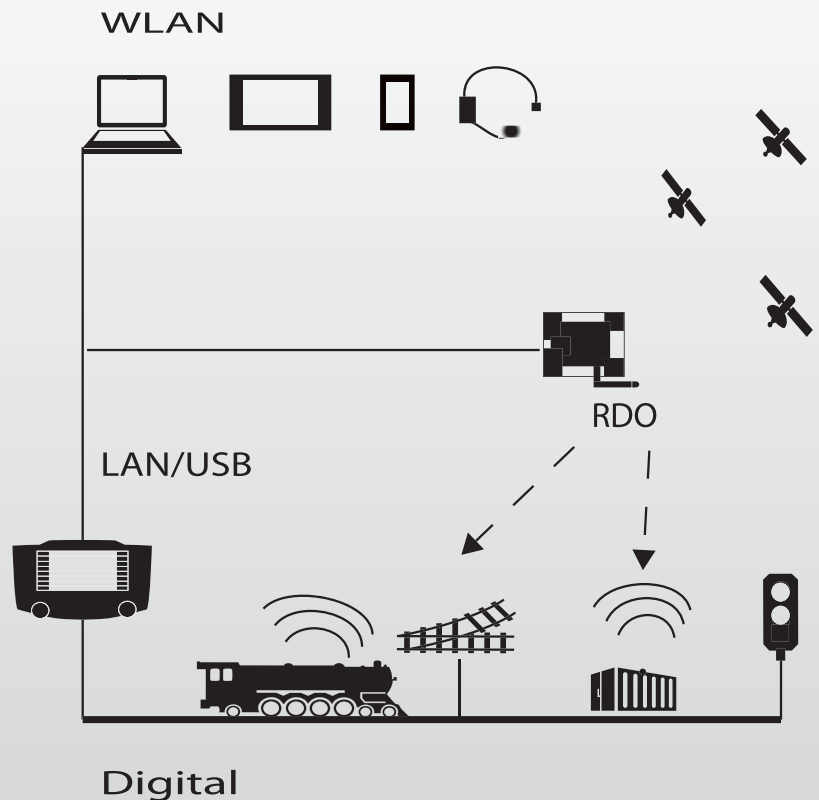
WLAN

RDO

LAN/USB

Digital

PRODUCTS; WHAT YOU NEED:

GT-Command: 1300003, SW package, if you do not already have it.

GT-Position Plug&Play: 1300923, starter package with 2 satellites, 1 container sender, GT-Xconnect, USB cable, etc. Applies GT-Command SW.

EXTRA ACCESSORIES AND EXTENSIONS:

Satellites: 1300810, with e.g. 1 extra you will obtain 3D measurement.

Sender for Ho scale: 1300710, 10 mm position sender for integration.

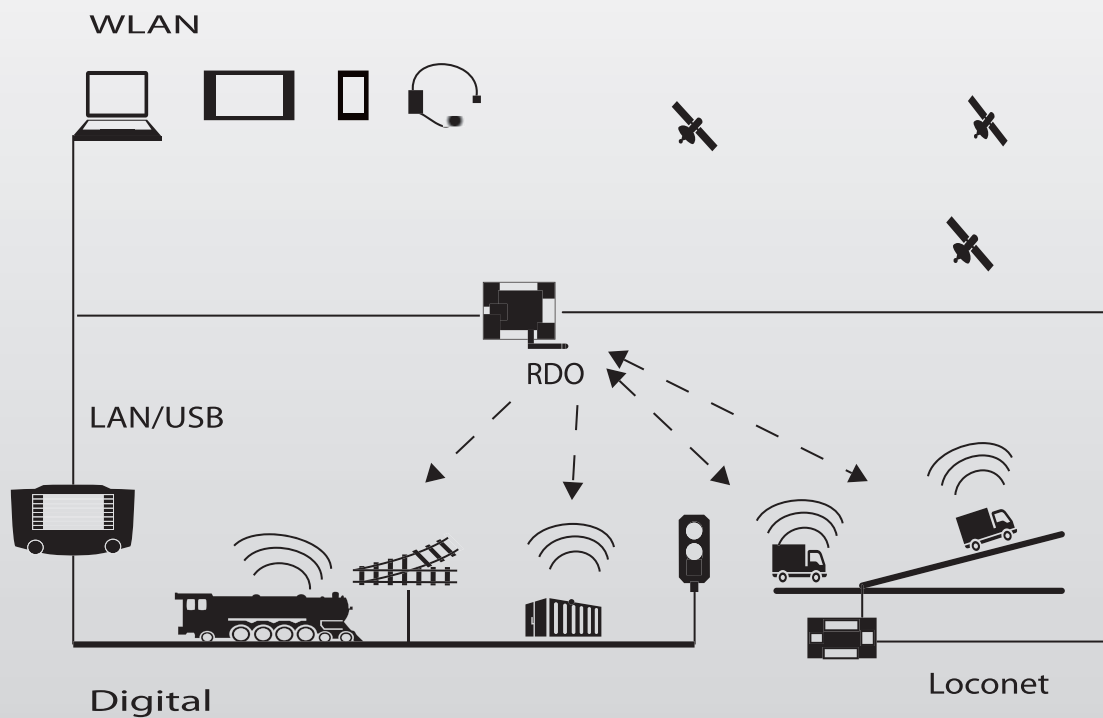**Sender for 0/1/G scale: 1300712,** 12 mm position sender for integration.

Container sender: 1300714, position sender in container, 2 AAA batteries, 30 hours operation.

Sender kit: 1300711, position sender kit with free battery box, without housing, 2x AAA batteries.

Trains and Cars with Common Positioning and Control

Of course, cars do not run on tracks and will have to receive control information another way. GT-Command sends 2-way DCC control via the integrated radio in GT-Xconnect Version 2 to Faller cars, or other battery operated vehicles. GT-Command can send DCC via radio, and simultaneously send DCC via a standard control box. You decide the setup. Therefore, some trains can run in the traditional way via a DCC control box connected to the track, whilst other trains can run with integrated radio, (just like the Faller cars are controlled via the radio). The positioning system also supplies the radio for transfer of measuring data between units. You can extend your layout gradually, adding abilities for radio control to drive cars and trains simultaneously. The positioning system is the same for cars and trains. A running car or a running train draws the road or track layout itself. The automation in GT-Command is common for cars and trains as well. The cars mainly use distance control, whilst the trains use block control. The trains however, also use distance control when stopping in front of signals. Cars and trains can interact at crossings, at railway stations, at container terminals, etc. etc.

GT-Xconnect V2 has a Loconet connection allowing all accessories (including Faller turnouts and Faller sound modules) to be controlled directly from GT-Command via GT-Xconnect. GT-Xconnect V2 can send up to 400 DCC commands per second. The system works with acknowledgement from the senders so that retransmissions are avoided.

PRODUCTS; WHAT YOU NEED:

GT-Command: 1300003, SW package, if you do not already have it.

GT-Position Plug&Play: 1302923/1302953 start package with 2/3 satellites, 1 container sender, GT-Xconnect V2, USB cable, etc. Applies GT-Command SW.

Any GT-Command Faller upgrade: 1302291, GT-Command upgrade for Faller CS 3.0.

EXTRA ACCESSORIES AND EXTENSIONS:

Satellites V2: 1302810, with e.g. 1 extra you obtain 3D measurement.

GT-Xcontrol H0: 1302701, DCC via radio and 10 mm position sender.

Sender V2 to H0 scale: 1302710, 10 mm position sender for integration.

Container sender V2: 1302714, position sender in container, 2 AAA batteries, 30 hours operation.

Sender kit V2: 1302711, sender kit with free battery box, without housing, 2x AAA batteries.

Direct Radio Control of Gauge G/1/o Trains with the Option of Positioning

Large layouts in Gauges G/1/o present larger challenges with regard to wiring and running DCC via the track. When using GT-Xconnect as Master and GT-Xcontrol [in the train], DCC commands are passed directly to any DCC decoder via radio. Your DCC controller can be connected directly to GT-Xconnect. In this way you only need DC 16-24V – (often called analog) – power supply on the tracks. For the basic setup you will neither need a PC nor a DCC controller with high amp output; you ONLY need the signal part of the DCC. Any DCC controller is compatible, and you won't need boosters. GT-Xcontrol can control your turnouts via radio as well.

If you combine use of a GT-Xcontrol with a position sender, you can set up satellites indoors as well as outdoors, determining the positions of your trains precisely. You will then need a PC for drawing the layout, entering blocks and automation (if you wish). You will save wiring, track isolation and feedback modules. It is easy, rapid, and flexible when compared to cables.

GT-Xconnect has a range of approx. 50 m. You can operate GT-Xcontrol with any DCC decoder, and you can transmit all normal DCC commands including CV programming.

WLAN

USB

RDO

16-24 V DC

Digital

RDO

16-24 V DC
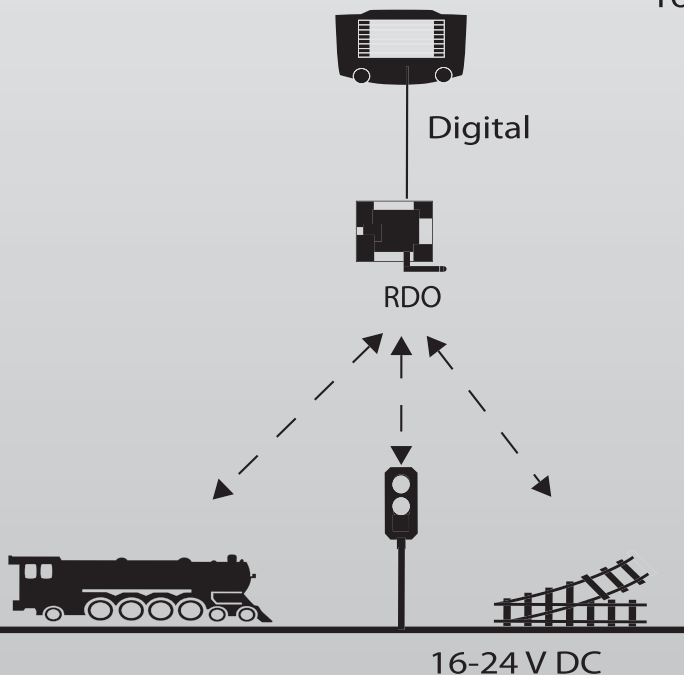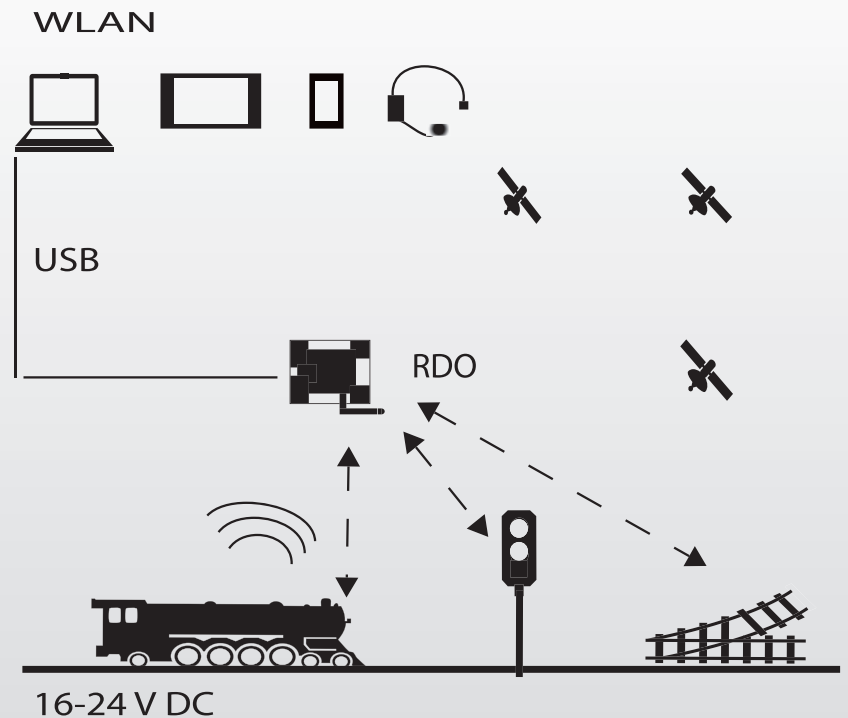
PRODUCTS; WHAT YOU NEED:

GT-Xconnect: 1 1302630/1302632/1302635, DCC via radio.

GT-Xcontrol Loco: 1302721, DCC via radio to train decoder.

GT-Xcontrol Device: 1302722, DCC via radio to turnouts.

EXTRA ACCESSORIES AND EXTENSIONS:

GT-Command: 1300003, SW package with automatics and PC control.

GT-Command Mobile: 1300053, Extra user for tablet or Smartphone.

GT-Position: 1302931, Upgrade of GT-Xconnect to positioning, start kit with 3 satellites, 2 GT-Xcontrol with positioning, USB cable etc. Preconditions 1300001.

Satellites V2: 1302810, Extra satellites for major layouts.

GT-Xcontrol loco: 1302725, DCC via radio with 12 mm position sender .

GT-Xcontrol: 1302727, Upgrade of 1302721 to 1302725.

Container Games with Positioning

If you enjoy simulating freight movements with physical containers, which are moved around a large area, then GT-Games Container is for you.

The idea is to move/transport as much as possible within the shortest time, complying with orders speedily to earn as much as possible. Of course, GT-Games Container can be operated on your existing model railway layout, but can just as easily be put into operation on a temporarily layout built for trains, cars/trucks with LEGO®, BRIO®, etc.

GT-Games Container is installed on a PC. The two satellites are set up and connected to power, then measured for height and distance. The container, (which is equipped with a sender), is turned on and will be displayed on the screen together with the satellites. If you would like to run on a road or on tracks, you can transport the container on these and draw your roads/layouts and you can measure areas, (which could be container terminals) or way-points, which you MUST pass on your way.

You can describe tasks and set max. time and max. speed for your transports, and you can have additional containers with various values, which can be transported on trains, cars or by hand, while the two receivers register speed and position and time. Then you can compete to see who can earn most money!

With regard to model railways it is a good way to learn how to drive, set routes and plan transports/railway timetables.

WLAN

USB

RDO
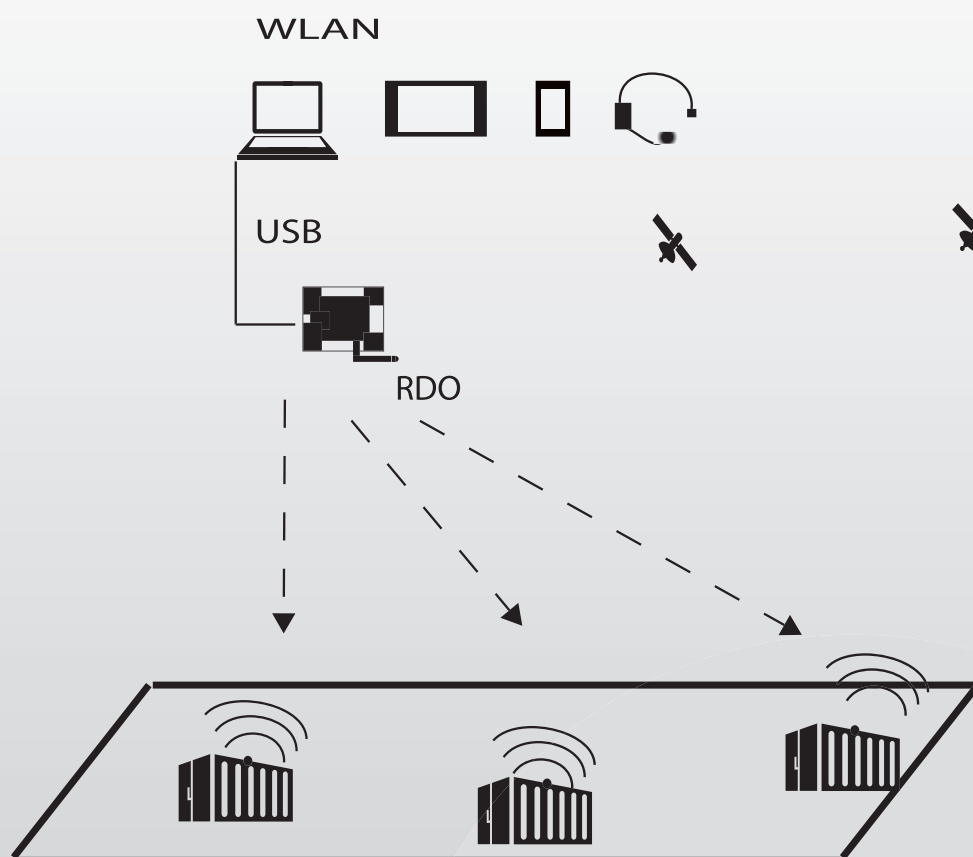
PRODUCTS; WHAT YOU NEED:

GT-Games Container: 1300523, contains 1 container.

EXTRA ACCESSORIES AND EXTENSIONS:

Container sender: 1300714, position sender in container.

Satellites: 1300810, for larger ranges.

**Upgrade for GT-Position: 1300533,** if you e.g. runs model trains.

GT-Command: 1300003, SW package with automatics and PC control of model trains.

Radio Control and Positioning of LEGO® Trains

LEGO trains are normally controlled via IR. With GT-Xconnect and GT-Xcontrol this control is extended allowing LEGO trains to be controlled and positioned like other model trains. GT-Xconnect sends control messages via its radio to a GT-Xcontrol IR sender in each train. In the train GT-Xcontrol IR forwards the message locally to the IR receiver of the train.

GT-Xcontrol IR is equipped with a position sender allowing the train to draw its layout and the train can be shown on the display and be controlled by means of automation from the PC, Tablet and/or by voice control. A turnout is set via a radio message to GT-Xcontrol Servo. This powers a small servo motor locally, which pushes or pulls the yellow hand control. GT-Xcontrol IR and GT-Xcontrol Servo can be integrated or built in. An instructional guide is attached.

GT-Xconnect receives the control commands from a PC or a connected tablet/Smartphone. They are transmitted by the radio to GT-Xcontrol, which translates them into local control in a train or other vehicle, or, as control of turnout or accessories, for light as well as movement. The user selects a channel for each train, but, as the IR channel is local in the train, more trains can be run using the same channel. This allows the system to be run with more than 4/8 trains simultaneously.

WLAN

USB

RDO+IR
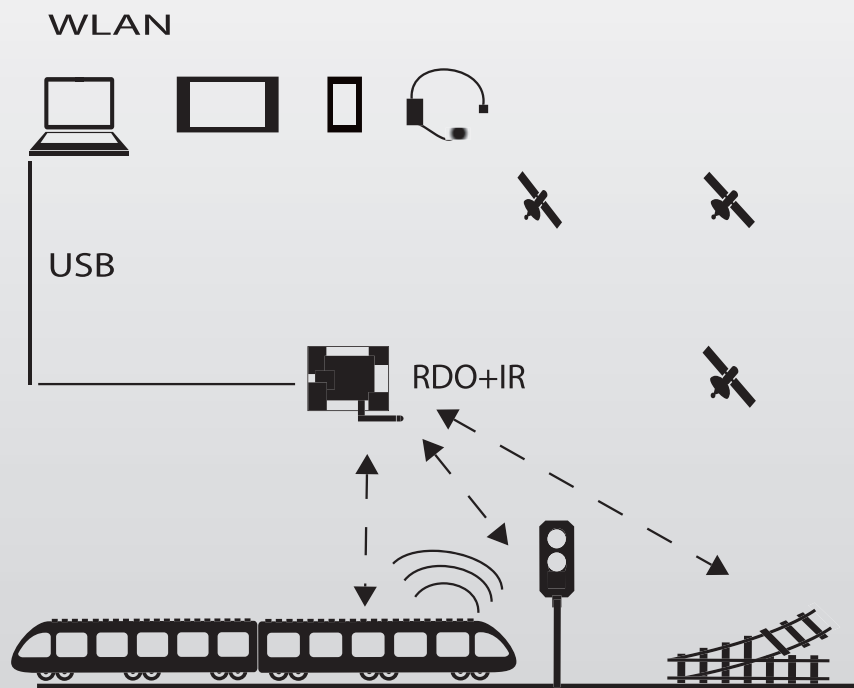
PRODUCTS; WHAT YOU NEED:

GT-Command LEGO: 1302063, start package, PC program, GT-Xconnect and GT-Xcontrol IR (1 train).

GT-Xcontrol IR: 1302761, sender for train and other IR vehicles.

GT-Xcontrol Servo: 1302762, sender for turnouts and accessories, 3V BT box.

GT-Servo: 1302763: 3V Servo for turnouts and mobile parts.

EXTRA ACCESSORIES AND EXTENSIONS:

GT-Command Mobile: 1300053, extra user for tablet or Smartphone.

GT-Position: 1302961, upgrade of start package for positioning with 3 satellites, extra SW, 1 GT-Xcontrol IR with positioning, etc. Preconditions 1302061.

Satellites V2: 1302810, extra satellites for large layout.

GT-Command

GT-Command	1300003
GT-Command Family – 2 user Mobile	1300033
GT-Command Club – 4 + user Mobile	1300043
GT-Command Mobile extra user	1300053
GT-Command PRO upgrade	1300023
GT-Command Faller upgrade	1302291
GT-Command 3L	1300004

GT-Position V1

GT-Position Standard Package incl. 10 mm sender	1300913
GT-Position Plug & Play	1300923
GT-Container upgrade to GT-Position P&P	1300933
GT-Position Satellite/Receiver	1300810
GT-Position Sender – 12 mm	1300712
GT-Position Sender – 10 mm	1300710
GT-Position Sender 3V Battery Kit	1300711
GT-Position Sender 3V AAA 20 Food Container Maersk, Seaco, Genstar, ...	1300714

GT-Xconnect

GT-Xconnect DCC over Radio	1302630
GT-Xconnect Loconet over Radio	1302631
GT-Xconnect DCC+Loconet over Radio = Plus	1302632
GT-Xconnect upgrade from Standard to Plus	1302633
GT-Xconnect Upgrade from Plus to Complete	1302634
GT-Xconnect Complete, (Faller, Tog, Loconet, Position m.v.)	1302635

## GT-Position inclusive radio control V2

GT-Position Plug&Play V2 Ho	1302923
GT-Position Plug & Play V2 G/1/0, 3 GT-Xsat, GT-Xconnect, 1 GT-Xcontrol, USB kabel	1302953
GT-Position Plug & Play V2 G/1/0 – upgrade GT-Xconnect DCC Standard 1302630 to GT-Position	1302933
GT-Xsatellite V2 (Receiver)	1302810
GT-Position Sender V2 – 12 mm	1302712
GT-Position Sender V2 – 10 mm	1302710
GT-Position Sender V2-3V Battery Kit	1302711
GT-Position Sender 3V AAA V2 20 Food Container Maersk/Seaco/.....	1302714
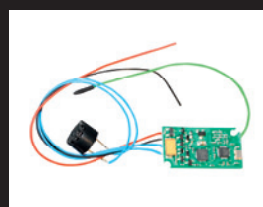
1300001-5   **1300921**   **1300710-1302710**   **1300712-1302712**   **1300714-1302714**

Upgrade from GT-Position V1 to V2 – HW-change

(To be ordered on the GamesOnTrack web-shop)

GT-Xsatellite V2 (Receiver)	1301810
GT-Position Sender V2 – 12 mm	1301712
GT-Position Sender V2 – 10 mm	1301710
GT-Position Sender V2 -3V Battery Kit	1301711
GT-Position Sender 3V AAA V2 20 Food Container Maersk/Seaco/.....	1301714
GT-Position Master V1 to GT-Xconnect with Position for trains	1301631

GT-Xcontrol – Direct DCC by Radio

|	
GT-Xcontrol Ho Loco 1A DCC-control by radio	1302701
GT-Xcontrol O-1-G Loco 3A DCC-control by radio	1302721
GT-Xcontrol O-1-G Device (Accessories) DCC-control by radio	1302722
GT-Xcontrol O-1-G 3A Loco Control + Positioning	1302725
GT-Xcontrol O-1-G 3A Upgrade from Control to Position 1302721 to 1302725	1300727

LEGO® Trains

(To be ordered on the GamesOnTrack web-shop)

GT-Command Startpackage for LEGO® Trains, PC-program, GT-Xconnect, GT-Xcontrol IR	1302063
GT-Xcontrol IR	1302761
GT-Xcontrol Servo (Radio control of 2 Servos and 2 Signals)	1302762
GT-Servo 3V – for turnouts – Accessory	1302763
GT-Position Upgrade from 1302061, 3 GT-Xsat + SW-upgrade	1302961

GT-Games

Traindriver 1	1300511
GT-Games Container	1300523
Upgrade GT-Position -> GT-Games Container (Gamefiles)	1300533

Online shop: http://en.shop.gamesontrack.dk
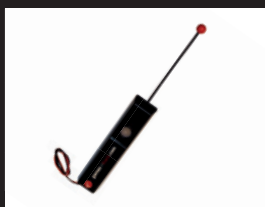
1300810-1302810	1302630	1302721-1302722	1302761	1302763
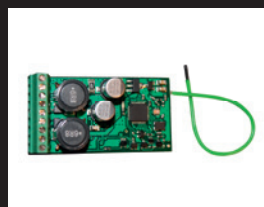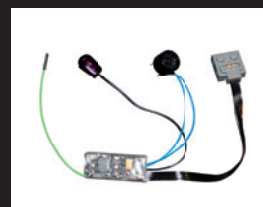
Technical Details

With GamesOnTrack you can build anything from a quickly assembled layout (with click together tracks, all the way up to large layouts with several layers.

The technical Details:

- PC software for Windows from XP-> W8, Mac (with a Windows feature), tablets and Smartphones connected via WLAN, retrieving updated system file.

- SW is supplied on CD or can be downloaded from GOT server. Updates are free of charge.

- The position system is 'indoor GPS' based on radio and ultra-sound. Positions 12 vehicles per second, with an accuracy of 10 mm. Covers standard 15 m², is extended by adding more satellites.

- Controls locomotives, vehicles, turnouts and accessories:
  – Using standard digital controls from Uhlenbrock, ESU, Märklin, Digitrax, Roco, Massoth, Tams Elektronik, Lenz, etc.,
  – By means of radio and IR for LEGO® trains and cars
  – By means of DCC via radio for Faller® Car
  – By means of DCC via radio direct into the decoder at Gauge G/1/0 trains or directly into the turnouts.
  – In any combination of programmable automations and manual control by PC/Smartphone/Headset/or DCC system handsets.

- The radio system provides up to 400 DCC commands/second.

- Radio systems automatically detect new units.

- Power supply can be batteries, DCC, or 16-24 V direct current.

- Power consumption for senders is approx. 15 mA.

GT-Xconnect V1: Radio master for positioning, USB connection to PC

GT-Xconnect V2: Radio master for controlling and positioning:

a) DCC input from digital units; covers power supply as well.
b) USB attachment to PC, covers power supply as well
c) Loco net connection can run as Loconet Master
d) 16 V AC power supply can operate 6 Satellites via DC terminal (SAT).

GT-Xconnect can work alone with DCC input or with PC input or both

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