Gamesontrack®

TRAINS, CARS AND DRONES

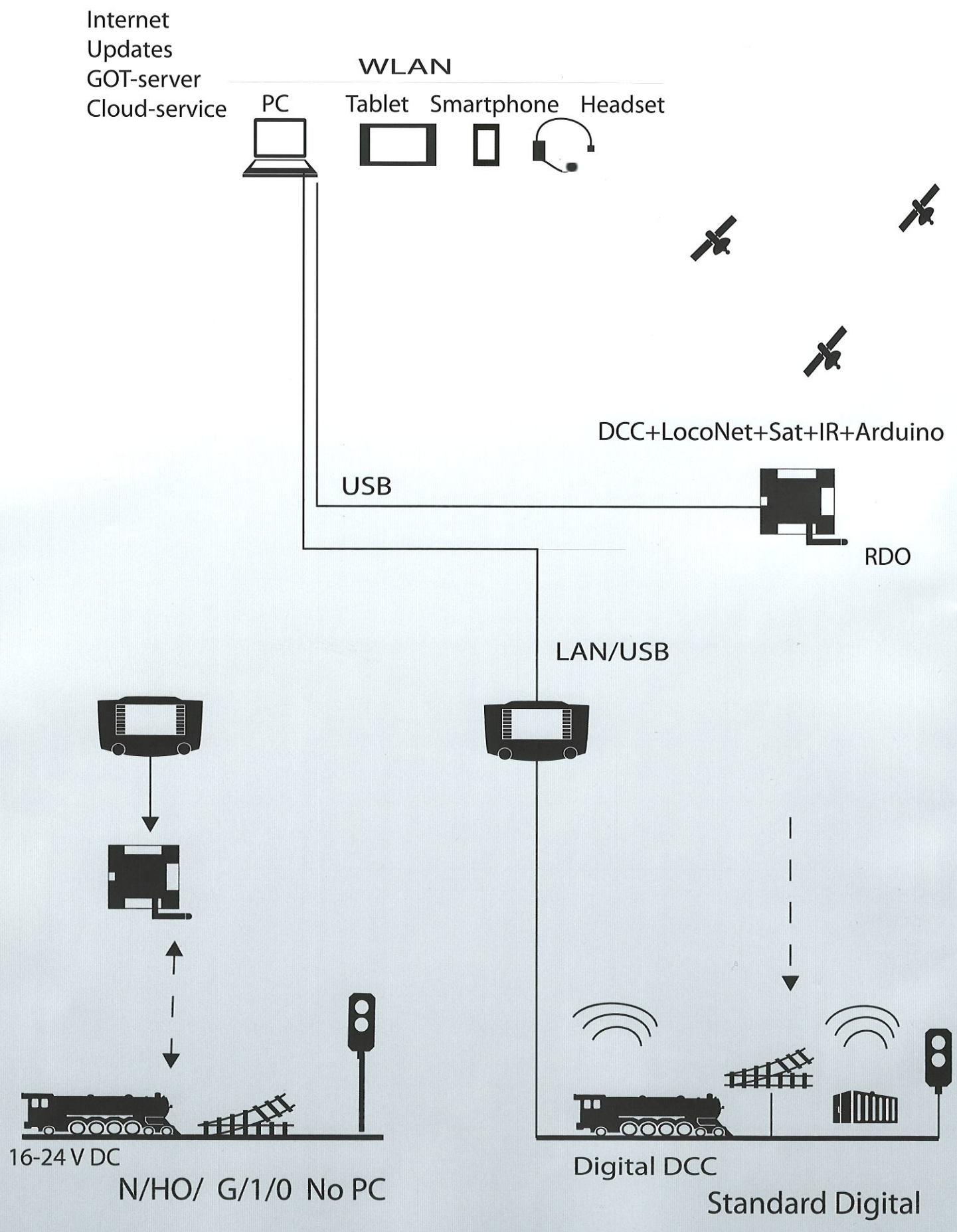
WITH RADIO AND INDOOR GPS

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

www.gamesontrack.co.uk

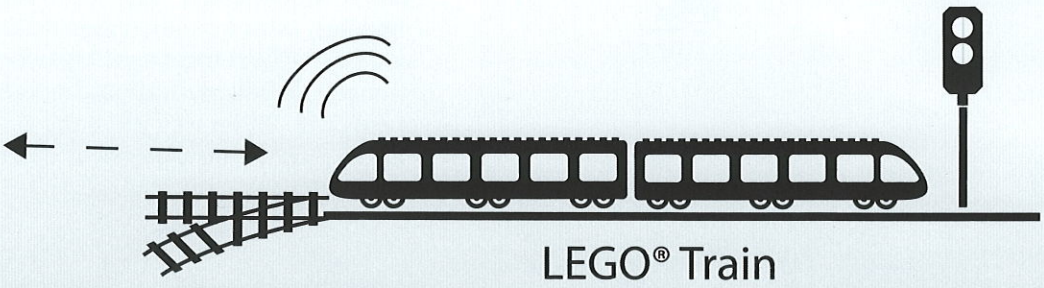
gamesontrack

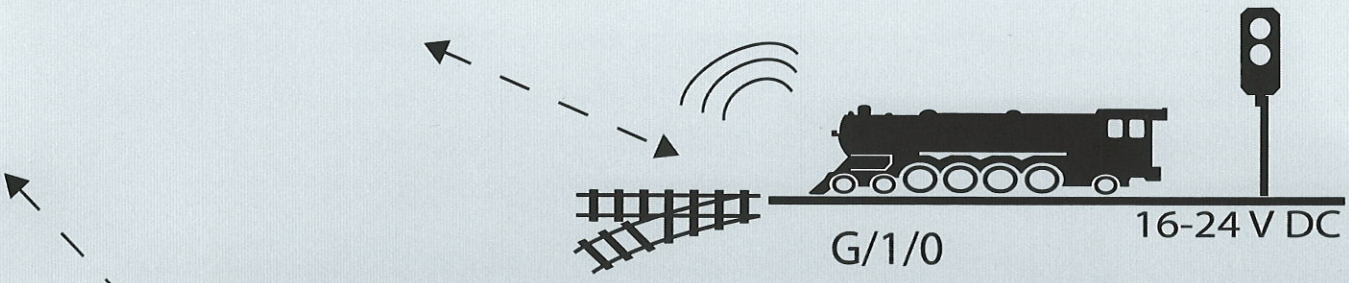
How it works!

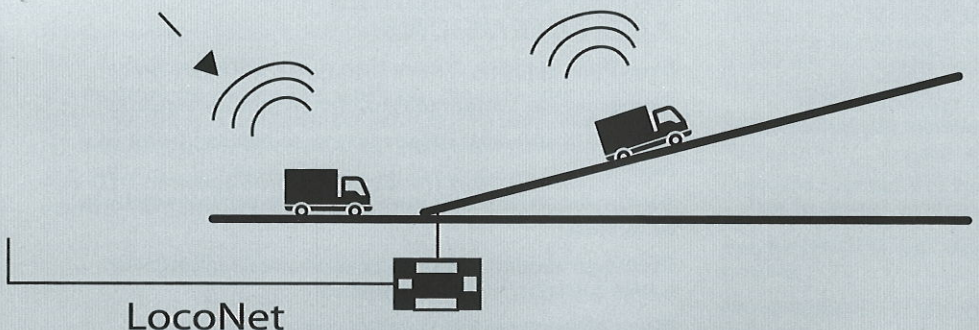

Internet
Updates
GOT-server
Cloud-service
WLAN
PC
Tablet
Smartphone
Headset
DCC+LocoNet+Sat+IR+Arduino
USB
RDO
LAN/USB
16-24 V DC
N/HO/ G/1/0 No PC
Digital DCC
Standard Digital

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

The GOT System is particularly suitable for the growing use of battery-operated units be it cars, trains, or drones.





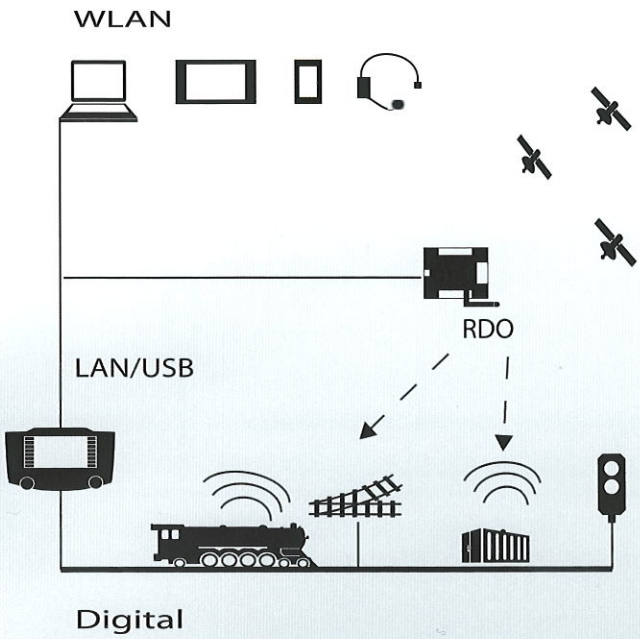


Faller® Car System

Save wiring, add block control and signals at no cost

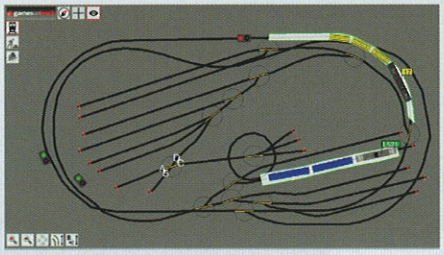
GT-Position informs you (in real time) of precisely where your trains are and plots them on your display. Firstly, run your train over all your tracks to draw the layout on the display. The software 'discovers' your turnouts, as well. You only have to name them. Draw your blocks with your mouse onto 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.

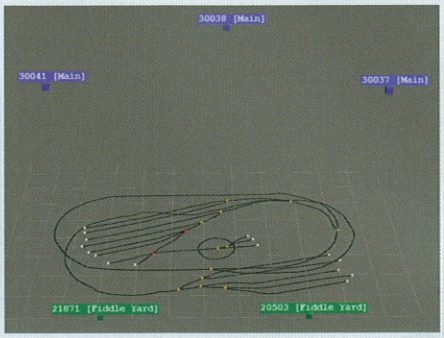
You place at least 3 satellites over your layout and add a sender per train. The sender can be installed or simply placed in a towed wagon or container. Coverage can be extended and precision increased using more satellites, i.e. 3 pcs. cover 15-20 m², depending on the form of the layout. Extra sets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



The Radio Master (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, 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. Add as many blocks or virtual signals as you need at no cost.





PRODUCTS; WHAT YOU NEED:

GT-Command: 1300001, SW package, if you do not already have it.

GT-Position Go (former Plug&Play): 1302921, starter package with 3 satellites, 1 container sender, 1 10 mm sender for one train, GT-Xconnect, USB cable, etc.

EXTRA ACCESSORIES AND EXTENSIONS:

Satellites: 1302812, if more than 15 m2, fiddle yards etc.

Sender for Ho scale: 1302710, 10 mm position senders.

Sender kit with batteries: 1302711, 10 mm sender for your build-in.

Sender for 0/1/G scale: 1302712, 12 mm position sender for integration.

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

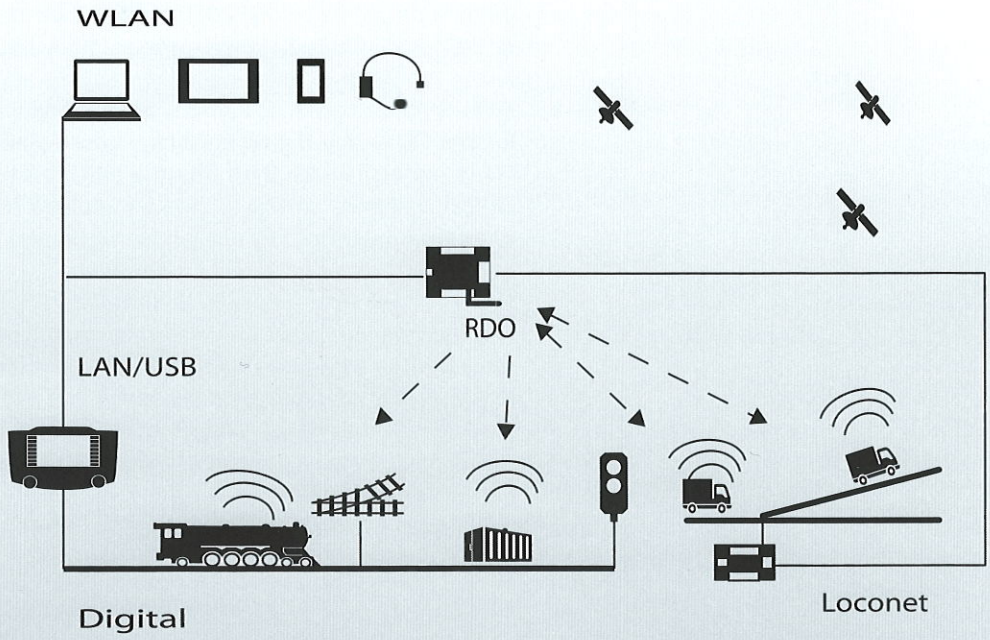
Micro transmitter kit: 1302805, 5x5 mm flat position transmitter.

Trains and Cars with Common Positioning and Control is a great experience

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 to Faller cars, or other battery operated vehicles. Simultaneously, GT-Command controls your trains via your digital controller. Furthermore, your digital controller can also control the Faller Cars using the DCC input connector on the GT-Xconnect.

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. They share the satellites. 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. The Faller cars are regulated using common traffic signs to stop, reduce speed, or avoid obstacles. You just add these on the screen. Cars and trains can interact at crossings, at railway stations, at container terminals, etc. etc.

GT-Xconnect 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 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: 1300001, SW package, if you do not already have it.

GT-Position Go (Former Plug&Play): 1302921, start package with 3 satellites, 1 container sender, 1 10 mm Build in 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: 1302812, or expand with the Faller Satellites. They are compatible.

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

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

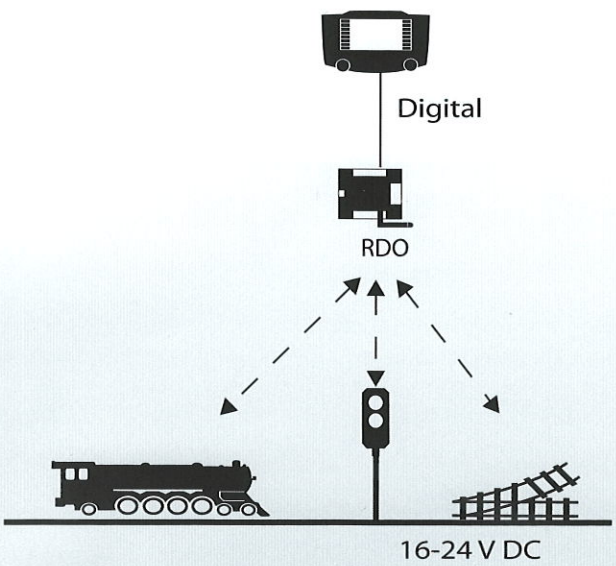
Sender kit with batteries: 1302711, 10 mm sender for your build-in.

Micro transmitter kit: 1302805, 5x5 mm flat position transmitter.

DCC via Radio allows simple DC or battery supply, saves a Digital Controller

In the old days, model trains were powered by simple DC voltage on rails. Today, we use complicated AC with impulse control called DCC/Motorola, which demands a DCC controller. However at the same time battery performance increases and charging methods are all over the place. You can get thousands of milliampere hours (mAH) for low price. GamesOnTrack offers you a smart way to benefit from that.

Our DCC by radio model allows you to drive your layout without having DCC/Motorola on the rails. We bring the DCC signal via radio to the train or decoder and generate the DCC impulses in the train. You have the same decoder functionality, but rails are only for DC power supply or just rails. It is as simple as that. Imagine your garden layout without any troubles from dirt and long wires.



The system works in any Gauge from N to G. The train takes power from rails (DC or DCC in mixed mode), on-board capacitors, or onboard batteries in any combination. GT-Xconnect brings the DCC control to the train where our GT-Xcontrol generates the DCC control to the train. The GT-Xcontrol can include its own decoder or simply power the exiting decoder. In large scale trains, we have room to both GT-Xcontrol and decoder, in small scale it is combined.

If the system operates without position, you can drive it from PC or any digital controller connected to the GT-Xconnect, which then lifts the DCC to the radio. The digital controller can be a simple handheld one with no need for booster or any big amps. Figure left.

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

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.

PRODUCTS; WHAT YOU NEED:

GT-Position Start (DCC by radio, excl. position): 1302901 or 1302905: N+Ho or o/1/G.

GT-Position Go (DCC by radio and position): 1302911 or 1302915: N+Ho or o/1/G.

EXTRA ACCESSORIES AND EXTENSIONS:

GT-Command Mobile: 1300051, Extra user for tablet or Smartphone.

Satellites V2: 1302812, Extra satellites for major layouts.

Satellites V2: 1302813, Extra satellites for outdoor layouts.

GT-Xcontrol N+Ho (with decoder): 1302701, Control and position, 10 mm sender.

Micro transmitter kit: 1302805, 5x5 mm flat position transmitter.

GT-Xcontrol loco o/1/G: 1302725, Radio to existing decoder, 12 mm position sender.

Control all devices by radio, save wires, save money, and make it simpler

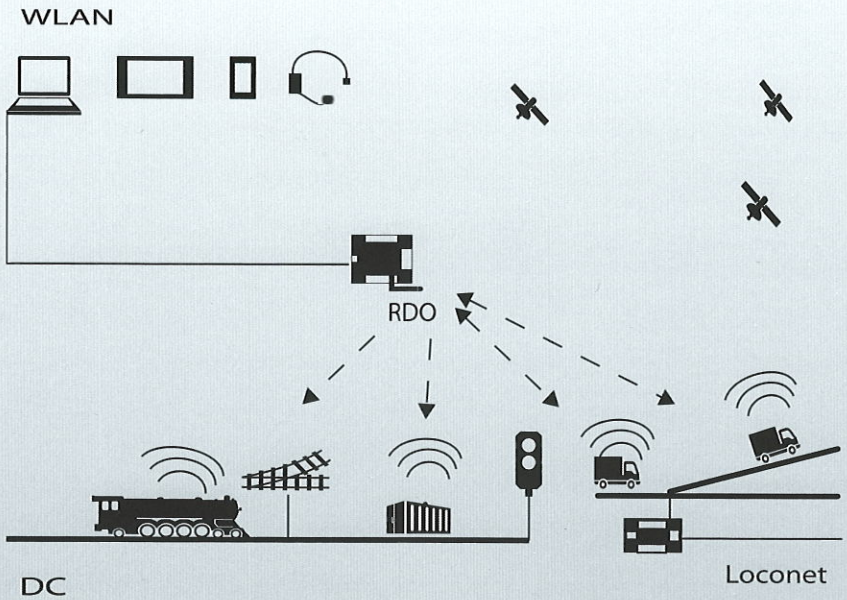
Many regulations of train and car traffic are made on the layout screen. You do not need street sensors for the cars, you have many virtual traffic signs on the computer which will be seen by the car when assigned to the road where the car is, i.e. stop signs, speed regulation, dangerous turns, etc. You can place virtual sections instead of street sensors. The same applies to trains, all signals and blocks assigned to the drawing. They make the whole block control.

However, you will need some switching, some physical signals, some sound, some accessory movements.

Your turnouts can be controlled by normal coils or servos using our GT-Xcontrols. You simply connect the Xcontrol to the device and assign power to it from rails or separate power supply. The on-line radio will detect it and on the screen you can select the unit by its unique radio address and assign to a specific turnout. Click the turnout symbol and it will switch position. No two units have the same radio address in the world so there is normally no need for setting DCC addresses. Turnouts with three-way, double cross, and two drives can also be controlled. The Faller Turnout coils can also be operated by the radio modules.

Signals are the same, you can program any traffic light or signal combination using the GT-Xcontrol Servo and light module. If you need a movement of a gate or similar, this module also applies for that.

It is similar with sound. Sound decoder will be available later, however regular sound on the layout in stations, buildings, accessories is provided for using our GT-Xcontrol Sound. It contains 8 individual sounds up to 25 seconds which you can upload or change on your own just using the radio. So you do not need to dismount it in order to add a new sound.



PRODUCTS; WHAT YOU NEED:

GT-Xcontrol coil (N+Ho+O): 1302702, operates two independent turnouts.

GT-Xcontrol Servo, 1302762, operates two servos and 2x2 LEDs.

GT-Xcontrol Device (O/1/G): 1302722, operates a polar Turnout.

GT-Xcontrol IR with Sound, 1302765, plays 8 different sounds, 25 sec. each.

EXTRA ACCESSORIES AND EXTENSIONS:

GT-Xcheck O/1/G: reports actual turnout position via radio to GT-Command.

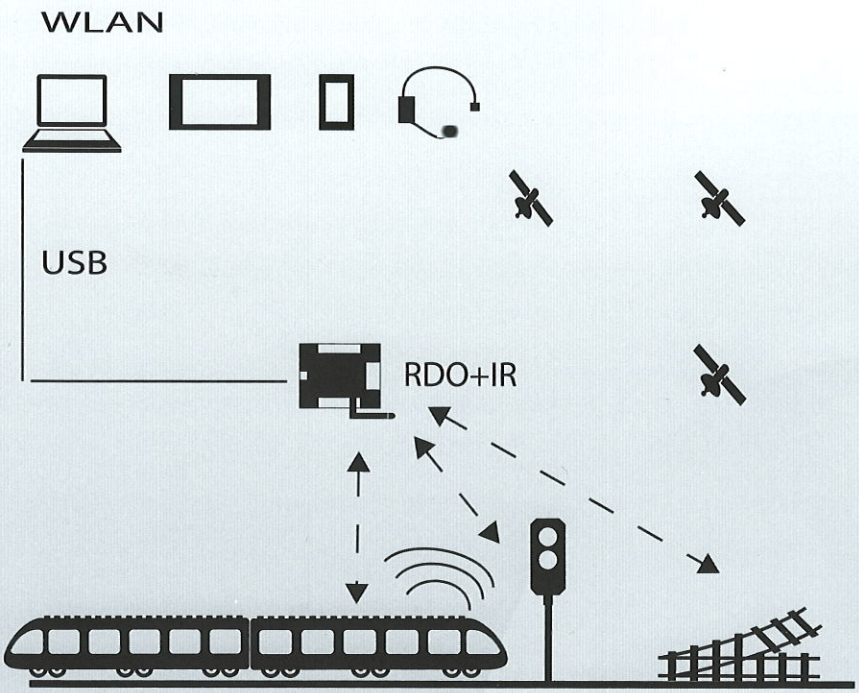
Radio Control and Positioning of LEGO Trains

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.

The System is planned for trains with IR-controller. If you have old LEGO trains with metal rails the system will also work if you switch cables in the motor and add the IR-module.



PRODUCTS; WHAT YOU NEED:

GT-Command LEGO: 1302061, 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, 4,5 V BT box.

GT-Servo: 1302763: 4,5 V 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: 1302812, extra satellites for large layouts.

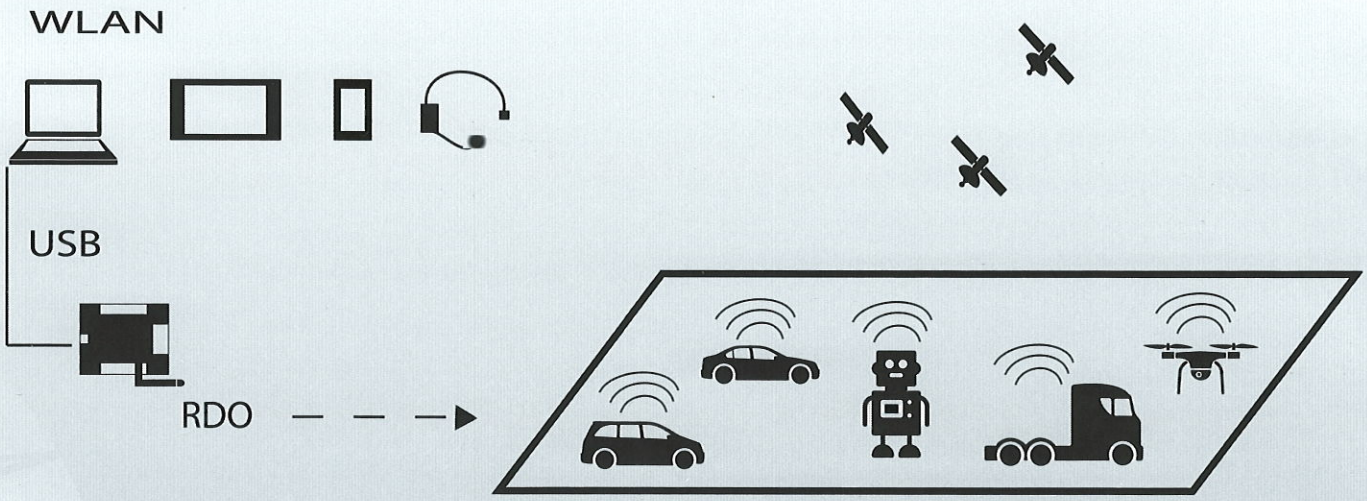
Radio control, positioning, and tracking of freely moving units

Both model trains and Faller Cars are turned via track or magnetic wire. Freely moving vehicles have independent turning gears of various nature. They may turn using the front wheels or four wheel steering, or they may use skid or differential steering like LEGO EV3, tanks, or the like.

GT-Command can drive such cars or trucks automatically using Arduinos and turn them into self-driving models on roads or fields. Our GT-Xcontrol Arduino module connects to: Let's say an Arduino Micro. It can then operate the turning operation, the drive in both directions operation, as well as all the extra gear such as sound and lights. The radio also handles feed-back information and battery status or the like to GT-Command.

GT-Xcontrol Arduino also has a 10 or 12 mm sender in order to track the vehicles position precisely indoor. Using the high accuracy of the positioning, the turning operation is guided by one or two position senders on the vehicle and some advanced "Drive to target" and "Drive follow line" automation macros in GT-Command. You can build you own roads to the cars and let the control benefit from all the signs, sections, and signals in the free virtual control box – only the position sensor is used – no physical sensor is needed.

The drones and robots are tracked in GT-Drone using the advanced 3D positioning. Often with more satellites with dynamic sensitivity due to the heavy noise generated from the drone. GT-Drone has a consumer version as well as an industry version with more functions. The automatic flight options are bound to the open (or missing) interface of the drones controller – please ask for options. The drone sender for consumers is the light-weight GT-Xcontrol drone, which is powered from the drone 3,7V LiPo battery.



PRODUCTS; WHAT YOU NEED:

GT-Arduino Go (incl. SW and Position): 1302311, start package, PC program, GT-Xconnect and GT-Xcontrol Arduino (1 vehicle).

GT-Drone Go (incl. SW and Position): 1302401, start package, PC program, GT-Xconnect and GT-Dronesender Small (1 drone).

EXTRA ACCESSORIES AND EXTENSIONS:

GT-Xcontrol Arduino: 1302719, sender and controller for vehicle, and for other Arduino controls.

GT-Xcontrol Servo: 1302762, sender for turnouts and accessories, 4,5 V BT box.

GT-Dronesender Small: 1302715, Position sender drone light weight.

GT-Dronesender XL: 1302716, Position sender drone with long distance.

How to Start Packages and Sets

	Control **Start**	Control+ Position **GO**	Control+ Position+ All Extra **Complete**
Trains w/DCC Controller N+Ho	1300001	1302921	1302931
Trains w/DCC Controller o/1/G	1300001	1302951	1302935
Trains w/ DCC by Radio N/Ho	1302901	1302911	1302931
Trains w/ DCC by Radio o/1/G	1302905	1302915	1302935
LEGO® Vehicles	1302061	1302161	1302101
Free Cars Arduino control	1302301	1302311	
Drones		1302401	

Components & Licenses

GT-Command

GT-Command	1300001
GT-Command PRO upgrade	1300021
GT-Command Mobile extra user	1300051
GT-Command Faller upgrade	1302291
Faller - GT-Command Upgrade	1302292

GT-Xconnect

GT-Xconnect DCC over Radio	1302630

GT-Xsatellites for Positioning

GT-Xsatellite V2 Dynamic - 2 sensitivities	1302812
3 x GT-Xsatellite V2 Dynamic - 2 sensitivities	1302892
GT-Xsatellite V2 outdoor	1302813
3 x GT-Xsatellite V2 outdoor	1302893

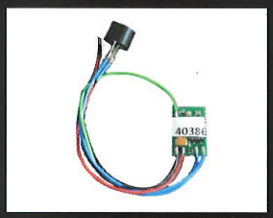
Command & Control & Position: DCC by radio

Components

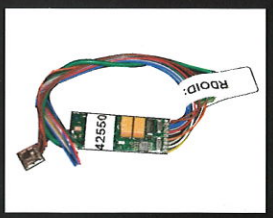
GT-Xcontrol N+Ho Loco 1A DCC- control over radio	1302701
GT-Xcontrol Coil, N+Ho 2 x Device decoder by radio	1302702
GT-Xcontrol O-1-G Loco 3A DCC-control by radio, DCC Booster	1302721
GT-Xcontrol O-1-G Device (Accessories) DCC-control by radio	1302722
GT-Xcontrol O-1-G 3A Loco Control + Positioning	1302725
GT-Xcheck O-1-G Turnout position control	1300728


1300001

1302911



1302710



1302701

1302714

Position senders: DCC by Rails, (digital controller)

Components

GT-Position Sender V2- 10 mm	1302710
GT-Position Sender V2- 12 mm	1302712
GT-Position Sender V2 -3V Battery Kit	1302711
GT-Position Sender 3V AAA V2 20 Food Container Seaco/Maersk..	1302714

LEGO® Vehicles

GT-Xcontrol IR	1302761
GT-Xcontrol IR with Sound	1302765
GT-Xcontrol Servo	1302762
Bricks - 2 signals, 2 servohouses	1308024
GT-Xcontrol Soundstation	1302767

Drone Flight & Positioning

GT-Dronesender Small	1302715
GT-Dronesender XL	1302716
GT-Container Industry Model	1302717
GT-Dronesender Battery Handheld	1302718

Free cars with Position and Arduino

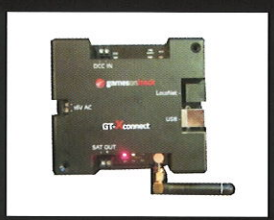
GT-Xcontrol Arduino	1302719

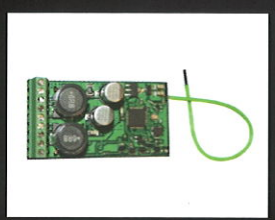
Accessories

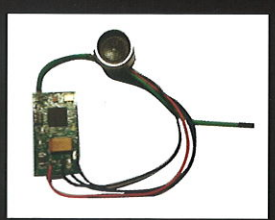
Sparepart Transmitter Flat 5x5 mm with connector	1308005
Sparepart Transmitters 10x7 mm	1308002
Headset for Speachrecognition	1308011
Temperature Automatics	1308012
Goldcap, Capacitor for Track G trains 22V/1.25 F	1308013
Powersupply Satellites and DC	1308014
Calibrator, skeleton+3 senders	1302791

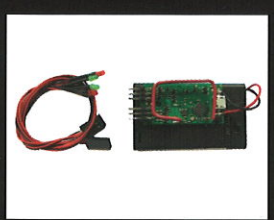
Online shop: http://en.shop.gamesontrack.dk


1302812


1302630


1302721-1302725


1302715


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-> W10, Mac (with a Windows feature), tablets and Smartphones connected via WLAN, retrieving updated system file.
- Radio is CE-approved 868 MHz in Europe and FCC-approved 902-922 Mhz in US and CDN.
- SW is supplied on USB or download from GOT-server. Updates are free of charge. GOT offers cloud back-up of all operating layouts.
- 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, also fiddle yards.
- Controls locomotives, vehicles, turnouts and accessories:
  - Using standard digital controls from Uhlenbrock, ESU, Märklin, Digitrax, Roco, Massoth, Tams Elektronik, Lenz, etc., or
  - By means of DCC via radio for trains, turnouts, servos, signals etc.
  - By means of radio, Arduino, 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, covers 50 m and can be boosted to 100 m in US frequency.
- 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 pictures are attached, the figures are explained:

GT-Xconnect: 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 operate 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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info@dccsupplies.com
www.dccsupplies.com

Dealer: