

# LinTronic

<http://www.lintronic.dk>

## The TableTop series



The LinTronic TableTop series, is a universal signal converter, offering:

- Internal InfraRed receiver, 36-40 KHz
- Internal InfraRed receiver, 455 KHz
- External InfraRed receivers in the range from 16 to 80 KHz and 455 KHz
- InfraRed wide-angle high-power booster
- InfraRed low-power output/distributor
- RS232 computer interface
- RS485 2-wire long-range industrial bus
- X10 2-way power line modem interface
- Digital inputs and Outputs
- Adressable communication, 1 - 32, 99
- Metallic black-painted cabinet
- Hidden or open installations

### TECHNICAL DATA

- Operates on 9 - 18 volt dc
- Minimum power requirements when transmitting InfraRed is 350 mA
- IR booster range, typical 15 meters
- IR operating range, typical 15 meters
- RS485 operating range, 1.000 meters
- Baudrate 2.400 - 38.400 bps
- Open-source communication protocol
- Dimensions: HxWxL = 4 x 10 x 7 cm
- Weight: 200 grams nett

Made in Denmark by LinTronic ApS.

LinTronic is a 100% Danish owned company, selling HomeAutomation solutions. We offer a worldwide network of competent dealers, installers and programmers.

### OPEN SOURCE PROTOCOL

All commands going to or from the TableTop products are documented. Our open-source policy allows installers and programmers to build their own interface to either monitor or control our products.

### YOUR LINTRONIC TABLETOP IS NEVER OUTDATED

Our products are under continuous software development. This means that we release software updates from time to time offering enhanced or new features.

An integrated BootLoader allows you to download the latest software from our web-site and upgrade the TableTop at no additional cost.

You can even later change the identity/functionality of the products by BootLoading any of the available software versions as you require.

### OEM CUSTOMERS WELCOME

The professional hardware design and LinTronic offering customized software for specific jobs, makes the TableTop series attractive for all type of customers with specific requirements.

Our products support/control for example:

- Any InfraRed controlled device in the range from 16 to 80 KHz and 455 KHz.
- AMX controllers (RS232)
- Bang&Olufsen audio/video/light
- Conson Concept 2000 Light System
- Crestron controllers (RS232)
- EIB Light System
- IHC Intelligent HomeControl
- ICPDAS input/output modules (RS485)
- Luxom Light System (RS232)
- Lutron Light System (IR or RS232)
- X10 IR, RF and Power Line
- and many more

### TRIGGERS AND ACTIONS

Events causing our products to actually do something is called Triggers. Events carried out by our products are called Actions.

**Triggers:** You can customize your LinTronic TableTop product to respond to for example:

- Bang&Olufsen remote control BeoLink1000, Keyring, BeoCom6000 and Beo4 (recommended)
- Philips RC5 remote control code by a Philips or learnable remote control like f.ex. Pronto, Marantz or Sony
- 2-wire RS485 BusCommands
- X10 power line signals
- Telephone line signals
- Passive InfraRed motion detector
- PC/controller commands
- Digital inputs, switches, relays, etc.
- SleepTimer, etc. etc.

**Actions:** You can customize your LinTronic TableTop product to control for example:

- Infrared signals controlling audio or video devices, lights, curtains, aircondition, fireplaces, etc.
- 2-wire RS485 BusCommands
- RS232 commands (2.400 - 38.400 bps)
- X10 power line signals (extended)
- PC/controller commands
- Digital data/outputs, relays, etc.

### TT455-RT-238

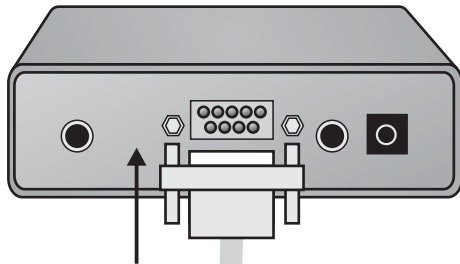
Is a universal signal converter and is our best product if you want to control devices operated by an infrared signal, relays, X10 signals, digital outputs or RS485/RS232 commands. The -238 may send a programmable BusCommand or an optional Trigger command to the computer, controller or 2-wire bus-system when a Trigger is detected, allowing your programmers to monitor virtually anything.

# Triggers and Actions

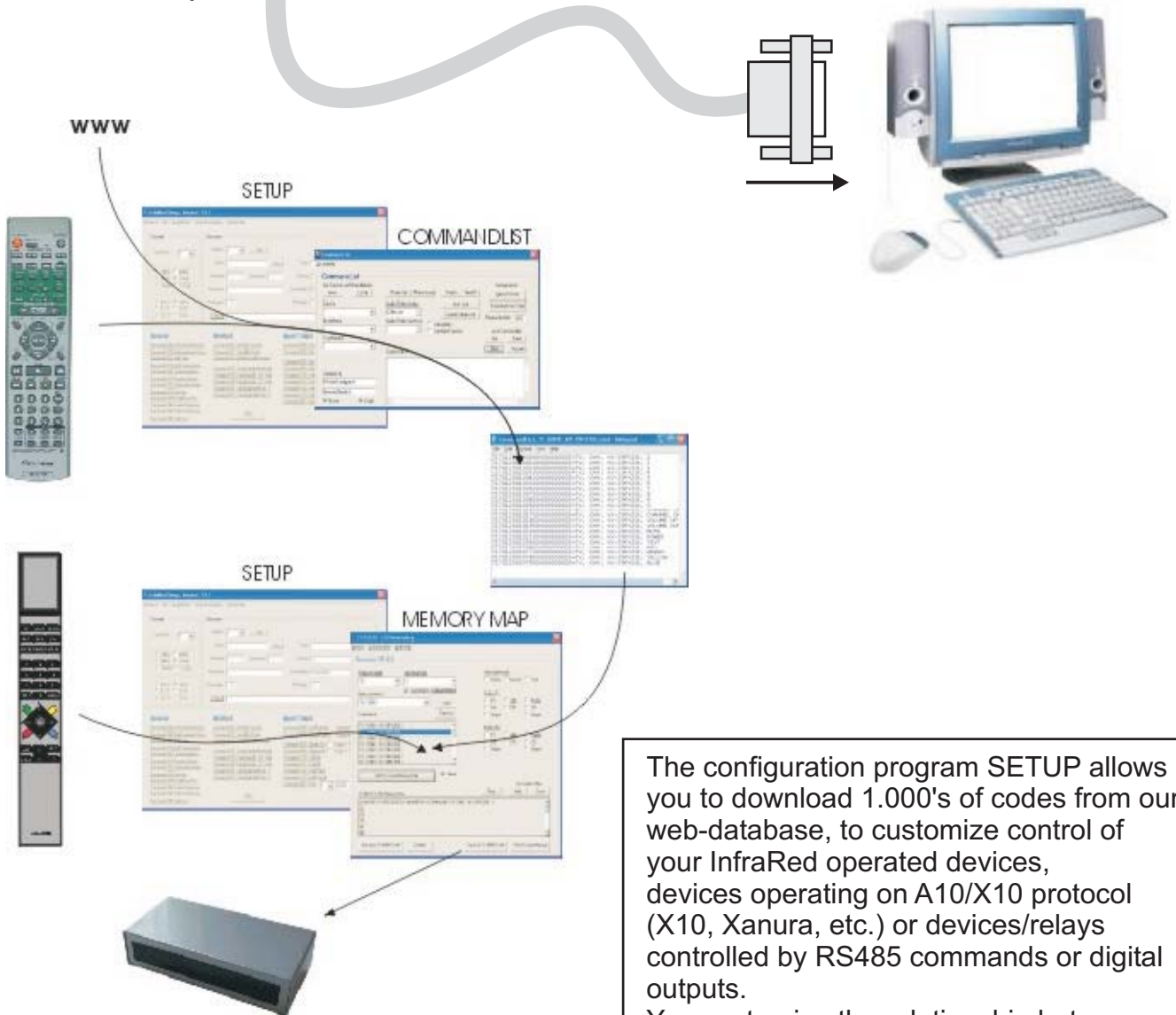


# Computer configuration

TableTop  
Transmitter or Converter



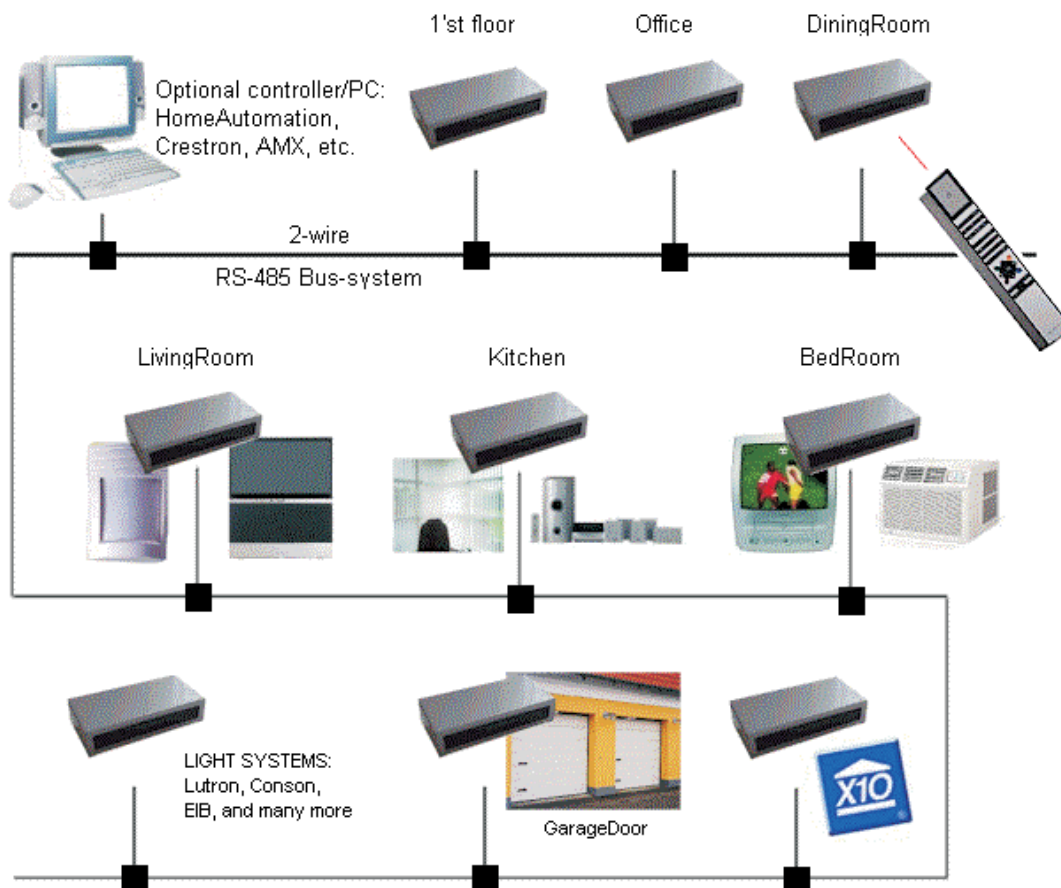
Connect the TableTop to the computer by a serial cable (ComCab-001) or USB cable (ComCab-002).



The configuration program SETUP allows you to download 1.000's of codes from our web-database, to customize control of your InfraRed operated devices, devices operating on A10/X10 protocol (X10, Xanura, etc.) or devices/relays controlled by RS485 commands or digital outputs.

You customize the relationship between detected Triggers and controlled Actions. Up to 32 Actions may be macro-controlled by the same Trigger.

# How our products are used



## STAND-ALONE CONVERTER

A Mac or PC is required to setup the configuration controlling your system. After the configuration you may optionally disconnect from the computer and operate the TableTop as a stand-alone controller.

## OPTIONAL COMPUTER

Leaving the TableTop connected to the Mac/PC/computer or controller like AMX, Crestron, etc. allows you to remote control a wide range of applications. For example by using the LinTronic HomeAutomation software. Programmers will enjoy our open protocol policy allowing control of all TableTop features.

## LONG-RANGE NETWORK

The integrated 2-wire long-range RS485 data- and network-bus, makes it possible for TableTop's to cooperate and control devices all over your home. Either by X10 power line signals or by LinTronic BusCommands sending instructions directly to a specific TableTop address (1-32) or sending a broadcast instruction to all TableTop's in the network (adr. 99).

The BusCommands allows you to send control-signals all over the house, triggered by for example TelephoneLineSignals, Motion detectors, remote controls, switches, X10 and more.

## OPEN or HIDDEN INSTALLATIONS

Depending on your requirements you may want to have the TableTop sitting in the open, or you may want to hide it away.

## ACCESSORIES

A wide range of accessories are available to customize your installation:

**TT-IR-8078030** - plasma protected IR receiver, designed by B&O.

**TT-IR-0455** - external miniature IR receiver for B&O.

**TT-IR-Distributor** - allows you to expand up to an unlimited amount of low-power IR LED's.

**TT-RS232-TBx** - termination block offering easy accessed screw terminal connection to RS232.

# Open or hidden installations

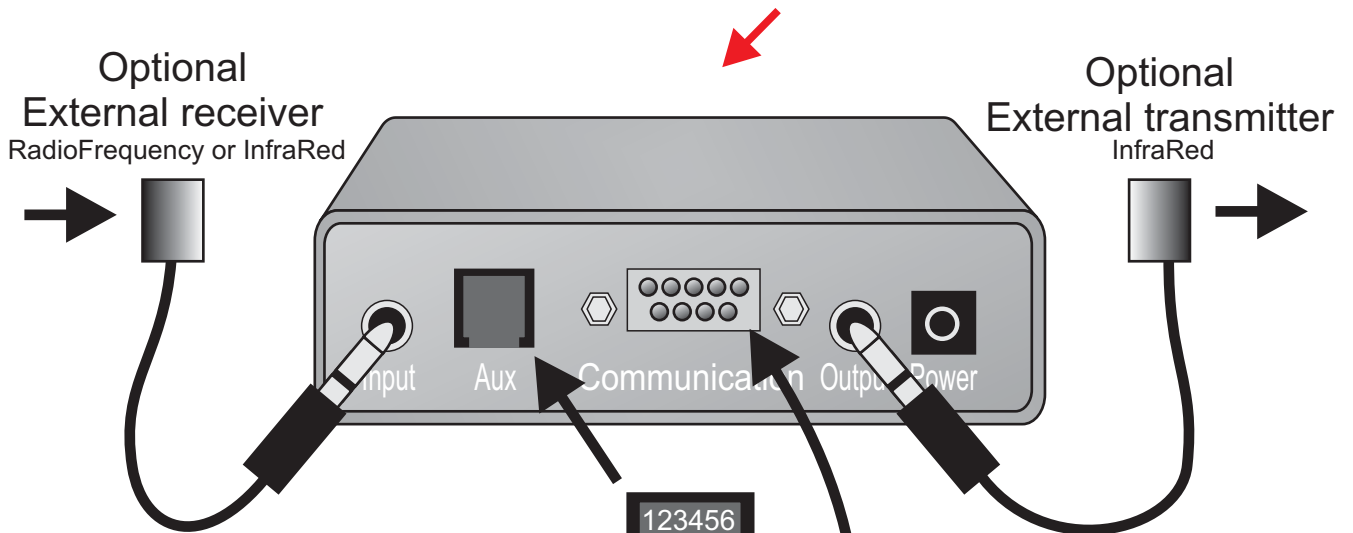
Open installations



Hidden installations

# External connections

## InfraRed receiver and transmitter in the front



### DIGITAL INPUTS

Programmable reaction,  
computer monitored,  
Relay-contacts, AutoMute-Relay,  
PIR movement sensor,  
switches, etc.

### DIGITAL OUTPUTS

Computer controlled,  
Remote controlled,  
Conson databus,  
Relay, etc.

