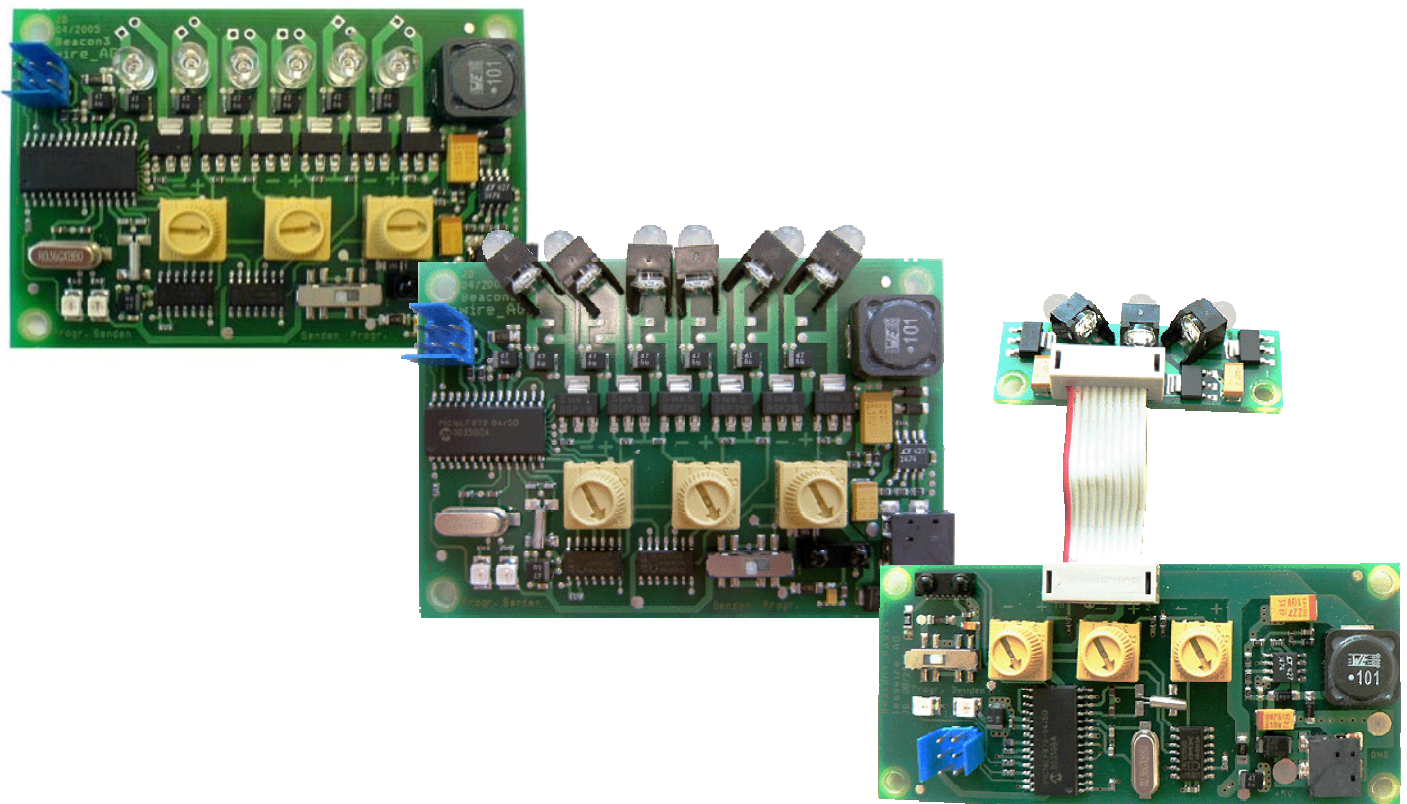




Get localization events on your mobile terminal

LocalNavigator™ IrDA Beacon

The IrDA beacons are designed for easily build-in location-awareness in applications using the IrDA-standard.



The new IrDA Beacon family offers:

- high flexibility and portability
- use as inconspicuous and reliable location-aware solution
- extreme low power consumption as base for very long, maintenance-free mobile service

The IrDA Beacon family consists of following products:

Product	Description
AN00956777 H-3	One board IrDA beacon with three LEDs, horizontal mounted to beacon board
AN00956777 H-6	One board IrDA beacon with six LEDs, horizontal mounted to the beacon board
AN00956777 V-3	One board IrDA beacon with three LEDs, vertical mounted to the beacon board
AN00956777 V-6	One board IrDA beacon with six LEDs, vertical mounted to the beacon board
AN00956785	Two boards IrDA beacon with three LEDs, horizontal mounted to LED array board



Infrared transmission of ID's or data packages over room-size distances (reflections i.e. in rooms can be used)
 Wide covered angle in both horizontal and vertical directions warranted by flexible mounting options
 Easily programmable via infrared interface with PDAs (Palm-OS, Pocket-PC, Windows Mobile und CE)

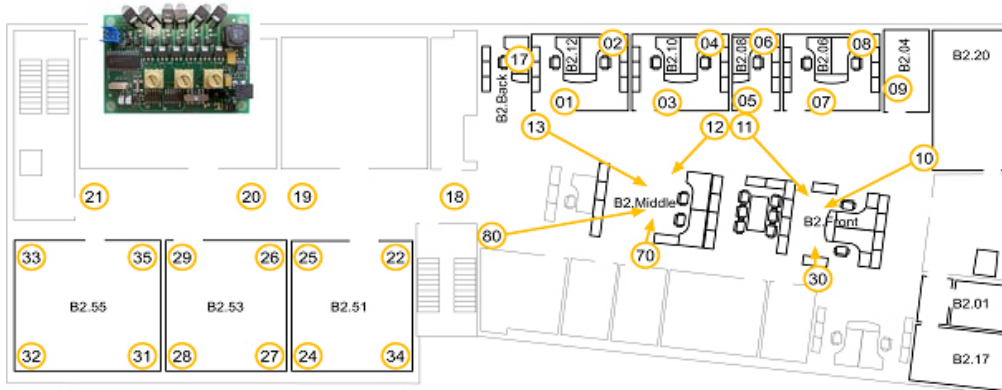
- stage less infrared transmitting power adjustment
- programmable data packages
- programmable transmitting interval
- low-battery detection signal (optionally)
- ICD firmware update interface

Powered by external power supply (6V) or by (rechargeable) batteries
 2 status-LEDs as operation mode notification
 Flash-storage for easy firmware upgrades

Technical Specifications

Coverage:	step less up to 5 meter (3 LEDs) or 8 meter (6 LEDs)
Angle, horizontal	> 165° (3 separate programmable regions)
Angle, vertical	> 55°
Power consumption	< 1 mA (50 Bytes per second transmitted)
Battery (optional)	4 x AA (rechargeable) batteries (batterie lifetime 6 month by 2 Hz)
External power supply (optional)	wall adaptor 6 V, 250 mA
Transmitting interval	programmable (1s ... 15s)
Beacon ID / data	programmable (1 Byte...2 Kbyte; multiple frames with up to 32 Bytes each)
Data rate	9, 6 Kbit/s

Use case for LocalNavigator™ IrDA-Beacons:



The floor plan above shows an office environment where localization events are available on mobile terminals created by LocalNavigator IrDA Beacons.

This system architecture is adaptable for museums, trade fairs, hospitals or even for industrial production environments. Unlike other localization technologies IrDA guarantees the exact position of the user because of the absence of undesirable reflexions of the radio signals. Additional IrDA delivers information about the orientation (line of sight) of the user.

The IrDA-Beacons can be combined with other localization technologies on the base of the LocalNavigator Platform.

