LTR-V5

LTO-CM Read/Write Device with RF speed up to 848 kbit/s

CONTACTLESS INTERFACE

- Contactless RF Interface 13,56 MHz to LTO-CMs
- Transmission speed up to 848 kbit/s
- Read Range: 0...25 mm typ.

HOST INTERFACE / FUNCTIONALITY

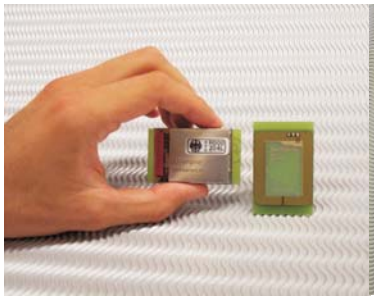
- RS232, USB 2.0 (VCOM)
- 9.600...115.200 Baud data transmission speed
- Low-Level instruction set corresponding to LTO-CM
- High-level instructions for fast and easy operation
- Special Test-Instructions along with large reader memory for optimum speed for test and initialization
- 100% functional compatibility to LTR-V2 and -V4

SOFTWARE SUPPORT

- Baltech LTR Software for Win NT4, 2k, XP allows unrestricted low-level access to native LTO-CM IC
- DLL available for easy software integration

MISCELLANEOUS FEATURES

- Ultra-compact with integrated antenna
- 5VDC Supply; 250 mA max.(USB bus powered)
- Operating Temp.: -20 … +60 °C



LTR-V5 module

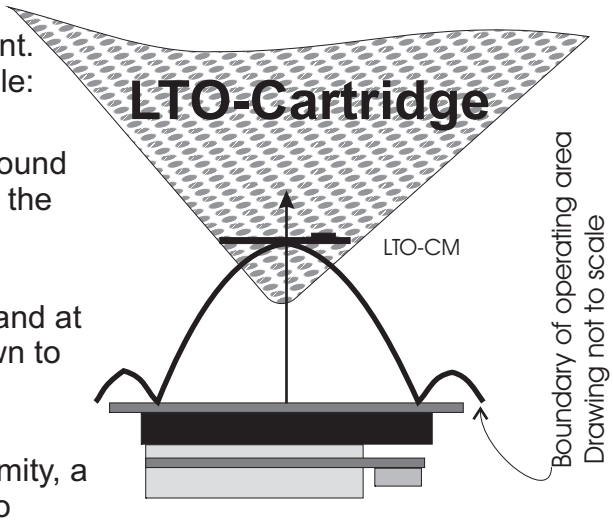
LTR-V5 module, housing with cable, wall-mount and LTO-cartridge

LTR-V5 is the latest model of Baltech's LT-Reader product line to read and write the Cartridge Memory of Linear Tape Open compliant tapes. Support of LTO/CM memory sizes up to 16 kByte and RF communication speed up to 848 kbit/s are the key features. **On top of that, the hardware is ready to support ISO14443 A&B and ISO15693 compliant RFID-Transponders in addition to LTO/CMs by use of a special firmware (on request)**. Due to the 100% functional compatibility to LTR-V2 and LTR-V4, it can also be used as an upgrade as well as for system extensions without touching the application software.
The RS232-version is shipped with an international AC/DC power supply and a special RS232-cable with integrated DC power socket.
Alternatively, the device provides an USB interface connection where the power is drawn through USB, too. The BALTECH VCOM USB driver allows to use USB from the application software point of view like a serial device, so there are no changes in the application software required.
Software, DLL and reference manual can be downloaded at
www.baltech.de
after registration to our customer-download-section.

BALTECH AG
Lilienthalstrasse 27
85399 Hallbergmoos
Germany
e-mail: info@baltech.de
web-site: www.baltech.de
Phone:+49 (811) 99 88 1-0
Fax: +49 (811) 99 88 1-11

LTR-V5 mounting and antenna field

LTR-V5 is an electronics module with integrated antenna. The back side of the antenna is electrically and magnetically shielded for best insensitivity to the mounting environment. However, the following mounting guidelines are applicable:



- Electrically conductive materials (metal, carbon compound materials...) in front of the antenna will completely shield the RF field and result in complete failure.

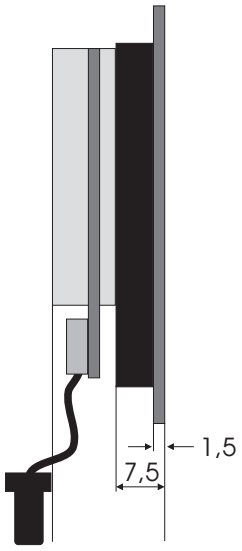
- When mounted flush into metal, the antenna surface and at least 10 mm around the antenna must be metal-free down to the total thickness of the module.

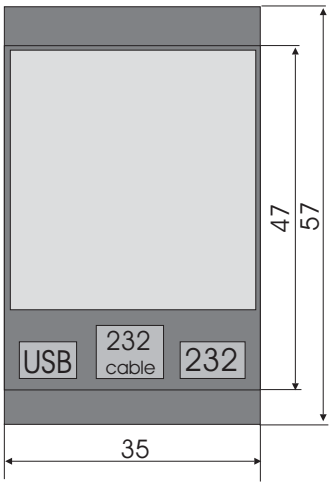
- When operating more than one LTR-V5 in close proximity, a minimum distance of 15cm should be kept from device to device.

- Switchmode power supplies, DCDC-converters and data transmission lines may cause interference which results in RF communication failures. Please avoid placing cables in the antenna field, especially when conducting such signals.

The diagram shows the operating area when the LTO-CM is parallel to the antenna surface. Please note that the LTO-CM is mounted with an angle of about 45 deg inside the cartridge, so the optimum orientation of the cartridge to the antenna surface is as given in the drawing.

LTR-V5 mechanical





Technical Data

Supply Voltage:	4,75...5,5 VDC
Supply Current:	250 mA max
Operating Temperature:	-20...+65°C
Serial Interface speed:	9600 ...115200 Baud
RF Field:	13,56 MHz ISM frequency