Instructions to use Datalogic readers in USB interface on LINUX system

1. Linux doesn't require any specific USB driver to connect a Datalogic reader in **USB-KBD** mode or **USB-COM** mode. On the web site are available only USB driver for Windows.
2. The reference **Kernel version 2.4** was used to develop the USB driver on the Datalogic readers. The compatibility between our readers and the previous Kernel version is not guaranteed.
3. The **USB-KBD** mode is operative connecting the reader to the USB port and than using any kind of editor program.
4. The **USB-COM** mode is operative without installing any driver but it is enough re-directing the input port used in the customer application to receive data from the "COM" used by Datalogic readers.
5. The virtual COM on Linux is named **ttyACMx where x** means a progressive number starting from **0 (zero)** ahead. The reader configured in USB-COM mode and connected to the USB port is associated to the first virtual COM port (**ttyACMx**) free for the system. Therefore, if no other readers use the virtual COM, the reader will be connected to **ttyACM0**.

Linux program to use Datalogic readers in USB-COM

Minicom is one of the Linux application program that allows to get data from a virtual COM port. It is necessary to set the parameters before using it, to re-direct the input port of the application on the virtual COM port of the reader.
Running **minicom** you start by the standard configuration setting.
Running **minicom -s** start a menu that allows to configure the parameters used in the connection (**configuration**).
On this menu select the **serial port setup** option and configure the following parameters:

1. **serial device**: change the defined port by the virtual COM port connected to the reader (for example /**dev/usb/ttyACM0**)
2. Set RS232 parameters to default value: **9600 baud, 8, N, 1**
3. Set **Hardware control** : NO
4. Set **Software control**: NO

Note:
At point 1) if the path /**dev/usb/ttyACM0** is not accepted it is possibile to create a virtual link to the COM by the linux command **ln** that associates to an imaginary name , any path and in this case the path of the virtual COM port. This method is necessary since some applications of the old generation don't support ttyACMx ports. While, using the virtual link it is possible to use this port since, on the link name is effected no check.

How to know the virtual COM port value

1. Before connecting Datalogic reader run **lsmod** (Linux command) to verify all active modules inside the operating system and the peripherals.
   Verify the amount of ACM peripheral (for USB-COM) available on the system and which is the ttyACMx port associated to the actual peripherals.
2. Connect the Datalogic reader.
3. After running **lsmod** again and verify the new amount of ACM peripherals appears, if this value is 2 means that our reader is connected to the second ACM port and it corresponds to ttyACM1.