OPERATING DESCRIPTION of STAR-Modem™ RF910MHz

The EUT is a Datalogic device which forms part of a cordless barcode reader system.

Particularly, STAR-Modem™ is a radio modem developed to provide wireless 910 MHz RF communication between any serial device (Host) and Datalogic RF devices or base stations.

The EUT has a single port for connection to a PC. This port may be configured for a different types of interface: "serial" and "wedge" interface (connects to PC keyboard port).

All the typical multistandard interface selections are valid (RS232, Wedge, Pen Emulation).

Normally, STAR-Modem™ functions in bi-directional communication to receive data via radio from Datalogic RF devices or transmit data via radio to Datalogic RF devices. The radio link operates at 910 MHz.
In first case the unit acts as a base station receiving data via radio link to a cordless bar code reader, in the second one the unit acts as a transmitter radio interface.

The device was therefore considered as an intentional radiator (CFR47 part 15 sub-section C – section 15.249) and also as a class B digital device.

The unit is powered by an external power ac adapter.

This report covers two versions of the STAR-Modem™.
They differs only for the external power ac adapter :

1) The **STAR-Modem™ RF910MHz (10-30 Vdc model)** version has to be supplied by an external power ac adapter among 10 and 30 Volt.

2) The **STAR-Modem™ RF910MHz (5 Vdc model)** version has to be supplied by an 5 Volt external power ac adapter.