

Envisionware DeskTop RFID Reader User Guide

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DeskTop RFID

Envisionware Desktop RFID Reader



RFID-READER-KIT PL DeskPad XR BL-U is a high-performance ISO15693 protocol HF RFID reader. It is designed upon the fully self-intellectual property. Based on a proprietary efficient anti-collision algorithm, it supports fast tag read/write operation with a high identification rate. It can be widely applied in many RFID application systems such as logistics, personnel identification, conference attendance system, access control, anti-counterfeit and industrial production process control system.

Features

- Self-intellectual property;
- Support mainstream ISO15693 protocol tag
- RF output power 1W;
- · Advanced anti-collision algorithm.
- Integrated in 50ohm antenna, read distance up to 30cm (Depends on Tag chip);
- Support transparent command;
- Support tag data scan mode, stand-alone mode, and EAS scan mode
- Support external input and command synchronization in scan mode;
- Support USB2.0 and Ethernet
- Low power dissipation with a single +12V DC needed
- Provide DLL and demonstration software to facilitate the development

Specifications

Reference	RFID-READER-KIT PL DeskPad XR BL-U				
Size	375 mm x 275 mm x 26 mm (14,8 inch x 10,9 inch x 1,1 inch)				
Weight	Approx. 500g (1 lbs)				
DC Power	DC 12V				
Operating Frequency	13.56MHz				
Chip Compatibility	EM HF ISO Chips, Fujitsu HF ISO Chips, IDS Sensor Chips, Infineon my-d, KSW Sensor Chips, NXP I-Code, STM ISO Chi ps, TI Tag-it				
Communication Interface	USB2.0/RJ-45 Ethernet				
Power consumption	3.6W Max				
Reading Range	Up to 30cm (Depends on Tag chip);				
Operating Temperature	0° to +55°C				

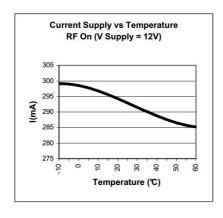
Storage Temperature	-20° to +70°C
Supported Transponders	ISO 15693 (ISO 18000-3 MODE 1)
Protection class	IP30
Relative air humidity	595 % (non-condensing)

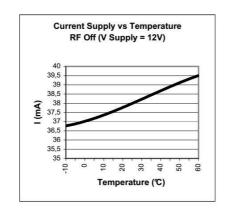
Absolute Maximum Ratings

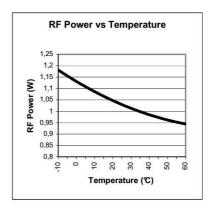
Parameter	Value 0℃ to +55℃		
Ambient Operating Temperature			
Storage Temperature	-20℃ to +70℃		
Supply Voltage with respect to GND	25 V		
Total Power Dissipation	3.6 W		

DC Characteristics

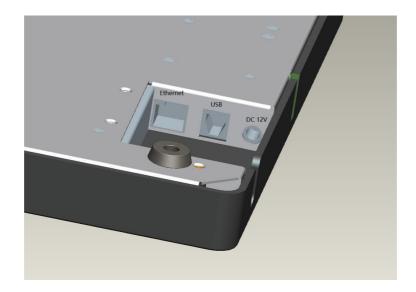
Value	Description		Max.	Тур.	Min.	Unit
V _{Supply}	Supply Voltage		13.2	12	10.8	V
I _{RFOff}	Supply Current – RFOff – USB Plugged (V _{Supply} = 12V)		44	39	35	mA
I _{RFOn}	Supply Current (RFOn, Dummy Load 50Ohm, V _{Supply} = 12V)		304	290	275	mA
and the control of	Cupply Current	AERO LI		271		mA
I _{RFOn}	Supply Current (REOn V = 12)/ Antenna connected)	LSA-2		290		mA
(RFOn, V _{Supply} = 12V, Antenna connected)	(KFOII, V _{Supply} – 12V, Airterina connected)	LSA-3		276		mA
I _{Open}	Supply Current (RFOn, No connection on RF Connector)			202		MA
T _{Op}	Operating Tempature		0		55	$^{\circ}$
V_{USB}	Supply Voltage on USB cable		5.25	5	4.35	V
l _{Usb}	Supply Current on USB cable		25	20	-	mΑ
U _{VOH}	D+/D- Static Output high		3.6		2.8	V
U _{VOL}	D+/D- Static Output low		0.3		0	V
U _{VSE}	Single Ended Rx Threshold		2.0		0.8	V
U _{VCOM}	Differential Common Mode		2.5		0.8	V
U_{VDIF}	Differential Input sensitivity				0.2	V
Z _{DRV}	Driver Output impedance		44		29	Ohm







Connections



USB: Type-BEthernet: RJ-45

• DC 12V input: 5.5mm x 2.1mm

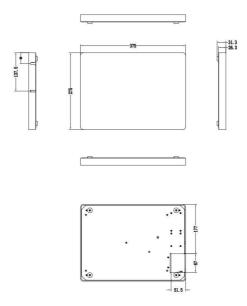
Installing the USB Drivers

At first connection to the PC USB port, Windows® will detect the RFID-READER-KIT PL DeskPad XR BL-U and will ask to install a driver. The USB drivers are located in the USB Drivers folder on the product CD-ROM or download the drivers at the following address: http://www.ftdichip.com/Drivers/VCP.htm

Two drivers will be installed:

- The USB device driver.
- The virtual COM port (VCP) driver. The VCP driver emulates a standard PC COM port. After installation of the
 drivers, power up and connect your RFID-READER-KIT PL DeskPad XR BL-U to a spare USB port on your PC
 to launch the Windows Found New hardware Wizard
- Select "No, not this time" and click next to proceed with the installation.
- Select "Install from a list or specific location (Advanced)" and then click "Next".
- Select "Search for the best driver in these locations" and click the Browse button to select the USB Drivers folder on the Product CD-Rom. Then click "Next" to proceed.
- Windows should then display a message indicating that the installation was successful.
- Click Finish to complete the installation Repeat the procedure above when Windows® asks for drivers again (virtual com port).

Dimensions



FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

Documents / Resources



<u>Envisionware DeskTop RFID Reader</u> [pdf] User Guide PLXRBLU, 2ALTGPLXRBLU, DeskTop RFID Reader

Manuals+,