

UF 001/001-00 - Fully integrated UHF compact reader (ETSI EN 300 220)



Highlights

- Multi Protocol
- Integrated antenna
- Fully compliant to ETSI 300 220 (869.525 MHz) regulation
- EPC C1 G2 compliant
- USB interface
- USB bus powered
- 6 I/O lines, buzzer
- No external antenna cable
- Fully upgradeable
- Low power short range/compact reader (1m) PC interfaced
- Designed for use in embedded or desktop environment

Overview

The A829EU is a multi protocol fully integrated UHF low power short range reader designed specifically to be used in desktop or embedded RFID application.

The A829EU is fully compliant to ETSI EN 300 220 (869.525 MHz) regulation, and it is the reader solution to solve the problem of proximity reading/writing of tags and labels, where transponders are up to 1 metre distance from the reader. The reader is a multi-protocol module, it supports ISO18000-6 A/B, Philips UCODE EPC 1.19, EPC Class1 Gen1 and EPC Class1 Gen2. Other future UHF protocols will be available by firmware upgrade.

The A829EU houses an integrated antenna, and an USB interface for PC connection. It is a bus powered USB device designed to operate as a stand alone PC peripheral communicating via an USB serial port.

Technical Specifications Table	
Frequency	869.525 MHz (ETSI EN 300 220)
RF Power	60 mW ERP @ 5V (CEPT/ETSI 300 220)
Antenna	Integrated Linear polarized Antenna (3.0 dBi @ 870MHz)
Frequency Tolerance	±10 ppm over the entire temperature range
Antenna	Integrated Linear polarized Antenna (3.0 dBi @ 870MHz)
Number of Channel	Single ch.: compliant to ETSI EN 300 220
Standard compliance	ISO 18000-6A/B, Philips UCODE EPC 1.19, EPC C1G1, EPC C1G2
Digital I/O	Six I/O lines 3.3 V out, 5 V tolerant
LED display	RED: Power GREEN: Identify TAG YELLOW: USB communication
USB Port	USB B female connector Bus powered USB 2.0 device Must be connected to High-power Port (> 500 mA @ VBUS) It appears as USB serial port Virtual Com Port (VCP) drivers for - Windows 98/2000/ME/XP Windows CE 4.2, Linux 2.40 and greater
Dimensions	180 x 130 x 97 mm ³ (7.1 x 5.1 x 3.8 inches ³)
Electrical Power	5 V DC bus powered (USB) Max 500 mA
Operating Temperature	-20 °C to 60 °C