AdvanReader-150

Thanks to its on-board microcomputer, AdvanReader-150 can work stand-alone, without needing to be connected to an external computer, thereby reducing equipment costs, installation costs, and maintenance costs. AdvanReader-150 is prepared to work with batteries and control the battery level. It has a sleep mode for minimizing consumption. It is therefore ideal for mobile systems.

Features

- On-board Linux computer: you can program your own software routines, saving the need and cost of an external computer;

- Works with batteries, for stand-alone applications: includes a mode of minimum consumption (sleep mode), increasing battery life. It monitors the battery level;

- 4-port or 2-port;

- High power, high sensitivity;

- Controls up to 64 antennas, with Keonn multiplexers;

- Controls electronically the beam orientation of directive antennas, with AdvanPhaser;

- Controls a screen without the need of an external computer;

- Direct connection to external loudspeaker for alarm applications;

- 2 digital / analog inputs;

- 8 digital outputs;

- Powers up external devices: Isolated power output: 5 V, 100 mA (DC);

- Powered through PoE, power supply of 24 V (DC), or batteries;

- Communications interface: Ethernet, optional WiFi, optional 3G;

- Software drivers with advanced functions for monitoring and control.

Advantages

- Saves the cost of an external computer;

- Ideal for stand-alone systems;

- High-performance: high output power and high sensitivity;

- Reduces time and cost of developing RFID systems. Ideal for embedding it inside RFID systems;

- Can become your own reader, if you put your company logo on the enclosure.

Technical Specifications

Air Protocol Interface	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Supported regions	FCC (NA, SA) 902 MHz - 928 MHz ETSI (EU, IN) 865.6 MHz - 867.6 MHz MIC (KR) 910 MHz - 914 MHz SRRC-MII (P.R.China) 920 MHz - 925 MHz Brazil: 902-907.5 MHz and 915-928 MHz (by using channel selection) ACMA (AU, NZ) 920 MHz – 926 MHz Open region
RF Connections	Four 50 ohm SMA connectors for monostatic antennas
RF Power	Programmable from 5 dBm to 31.5 dBm in 0.5 dBm steps (Maximum power may have to be reduced to meet regulatory limits)
Max tag read distance	Up to 9 m (33 feet) with 6 dBi gain antennas
Max tag read throughput	Up to 400 tags/second
Data communications	Ethernet: IEEE 802.3 up to 100 Mbps Wi-Fi through a USB dongle:RTL8192CU chipset is supported by default. Wi-Fi USB dongle not included
Power supply	Power Over Ethernet (PoE): IEEE 802.3af and 802.3at (Type 1 & Type 2) Power Supply: 11VDC @ 2A to 24VDC @ 1A
Output power	5 V @ 100 mA (DC) isolated power supply to feed external devices and circuitry
On-board sensors and actuators	Buzzer
Power consumption	Idle consumption < 3 W Max consumption (@31,5 dBm) < 14 W
Dimensions [mm]	232 x 137 x 24
Weight	240 g

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