AdvanReader-70A™
Reader with integrated antenna

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AdvanReader-70A ™
Reader with integrated antenna

Benefits:

- High flexibility
- Compact design
- Highly controlled reading area
- Easy installation, configuration and integration

Applications:

- Libraries
- Retail stores
- Document tracking
- RFID programming stations
- Smart display fixtures
- Smart surfaces
- Check-in / check-out of items, people and assets

Product overview

AdvanReader-70A is a high-performance, high-flexibility reader with integrated antenna ideal for check-in / check-out applications of items, people and assets.

AdvanReader-70A has high output power (27 dBm) and high sensitivity and its confined beam antenna allows to control very well the reading area, even with far field tags, avoiding in this way stray reads.

AdvanReader-70A has an on-board microcomputer and a fully open Linux operating system and comes with a comprehensive set of built-in HW/SW communication options:

- USB HID emulation: allows generating keyboard events based on Reader events.
- HTTP: user-configurable HTTP request generation based on Reader events.
- MQTT: user-configurable MQTT packet generation based on Reader events.
- SQL: user-configurable SQL sentence generation based on Reader events.
- TCP: real-time TCP socket of Reader events.
- REST API

AdvanReader-70A includes an internal buzzer and an internal speaker of 2W for emitting an acoustic signal when an event takes place, e.g. when a tag is read.

AdvanReader-70A includes 3 surface LEDs with different colours that can be configured as desired.

The hardware keyboard emulation functionality hardware (USB Type-B connector) allows a very easy and fast integration with computers used for check-in/check-out applications, without having to modify any application software.

The keyboard emulator is easily configured to send the keyboard codes required by each software application.
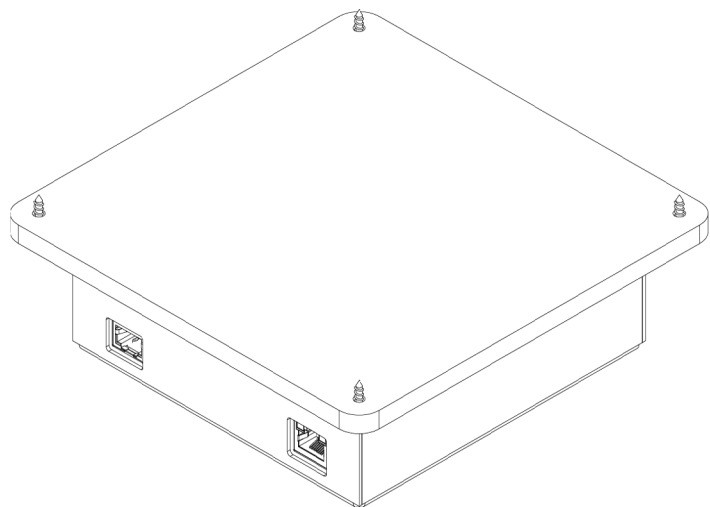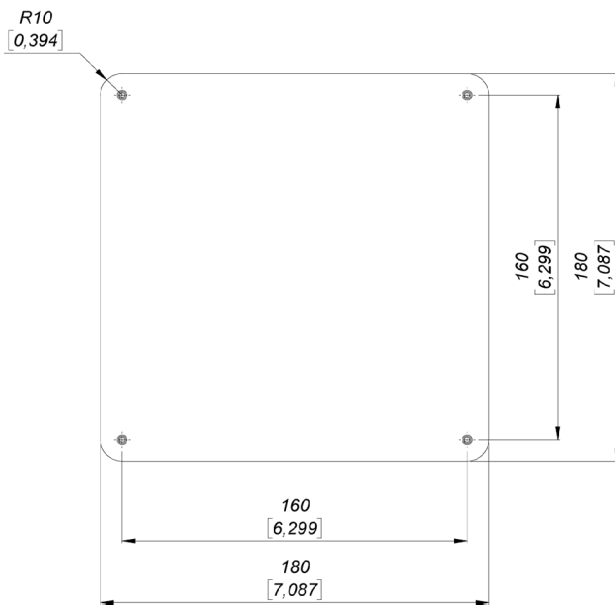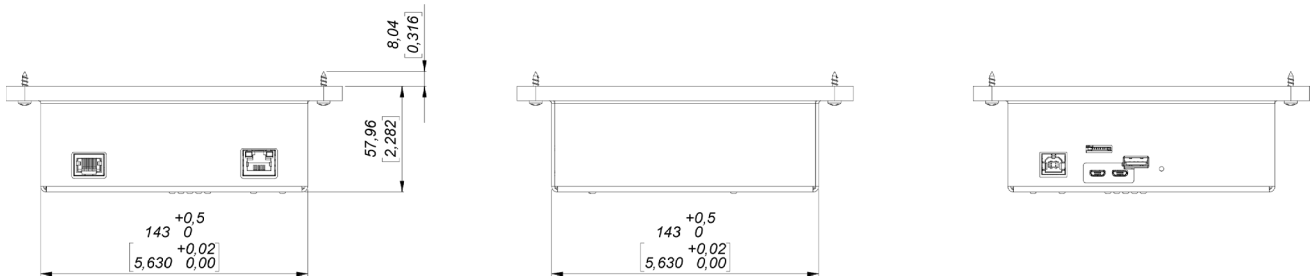
AdvanReader-70A can also be connected to an Ethernet network switch. This gives the advantages of an Ethernet-enabled device: remote control, centralized management, etc.

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Radiofrequency specifications

Air Protocol Interface	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C
Frequency	FCC (NA, SA) (917.4 – 927.2) MHz ETSI (EU) (865.6 - 867.6) MHz TRAI(India) (865 - 867) MHz KCC (Korea) (917 – 923.5) MHz MIC (Japan) (916.9 – 923.4) MHz ACMA (AU) (920 – 926) MHz NZ (New Zealand) (922 - 927) MHz SRRC-MII (P.R.China) (920.125 – 924.875) MHz MY (Malaysia) (919.0 – 923.0) MHz ID (Indonesia) (923.0 – 925.0) MHz PH (Philippines) (918.0 – 920.0) MHz TW (Taiwan) (922.0 – 928.0) MHz MO (Macao) (920.0 – 925.0) MHz RU (Russia) (866.0 – 868.0) MHz SG (Singapore) (920.0 – 925.0) MHz VN (Vietnam) (866.0 – 869.0) MHz TH (Thailand) (920.0 – 925.0) MHz AR (Argentina) (915.0 – 928.0) MHz HK (Hong Kong) (865.0 – 868.0) MHz BD (Bangladesh) (925.0 – 927.0) MHz Brazil (917.4 – 927.2) MHz by using channel selection Chile(916 – 928) MHz by using channel selection Peru (917.4 – 927.2) MHz by using channel selection Taiwan (922.600 – 927.2) MHz by using channel selection Open Region (859 – 873) MHz and (915 – 930) MHz (by using channel selection)
RF Power	Programmable from 0 dBm to +27 dBm in 0.5 dBm steps
RF Antenna	Integrated circular polarized antenna. RF field is confined to avoid reading unwanted tags.
Data communications	Ethernet: IEEE 802.3 up to 100 Mbps Type B USB HID to emulate barcode reader Console USB (USB micro Type-B connector) Maintenance port Ethernet point-to-point over USB (USB micro Type-B connector)
Power supply	Power Over Ethernet (PoE) • Supports IEEE 802.3af (Type I) and IEEE 802.3at (Type II) • Power consumption: Class 3 • Isolated from Ethernet cable Ratings & Tolerances PSE Type 1: 48 V (- 4 V / +9 V) Maximum power: 15.4 W PSE Type 2: 56 V (- 6 V / +1 V) Maximum power: 30 W On-board battery for RTC chip (CR2032)
On-board actuators	Buzzer 2 W loudspeaker (only available in CF versions)
LED indicators	A three-color LED for indicating the active operation mode
Compatibility with software applications	Can be easily integrated with any application software, through keyboard wedge
Power consumption	Idle consumption < 2.5 W Default consumption (@10 dBm) < 7 W Maximum consumption (@27 dBm) < 9 W
Temperature range	Operating temperature -20 °C to +50 °C Storage temperature -30 °C to +60 °C
Dimensions	180 x 180 x 56 mm (7.09 x 7.09 x 2.20 inches)
Weight	820 g (1.8 lb)

Mechanical specifications:

Units in millimeters and [inches]

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Product codes for ordering

ADRD	-	MX	-	A	-	MMM	
							MX = number of ports
		M1					1 port
							A = antenna type
				CP11			Confined field antenna
							Model
						70	Model

Examples:

ADRD-M1-CP11-US-70

- AdvanReader -70A
- 1 port
- CP11 antenna
- Frequency band: 902.0 MHz – 928.0 MHz
- Model 70

ADRD-M1-CP11-EU-70

- AdvanReader -70A
- 1 port
- CP11 antenna
- Frequency band: 865.6 MHz – 867.6 MHz
- Model 70

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