

AdvanTrack-50™

Overhead tracking system





Benefits:

- Asset tracking
- Item tracking
- People tracking
- Compact design
- Easy installation, configuration and integration
- Cost effective

Applications:

- Corporate buildings
- Hospitals
- Factories
- Warehouses
- Any low ceiling space where item tracking is required

Product overview

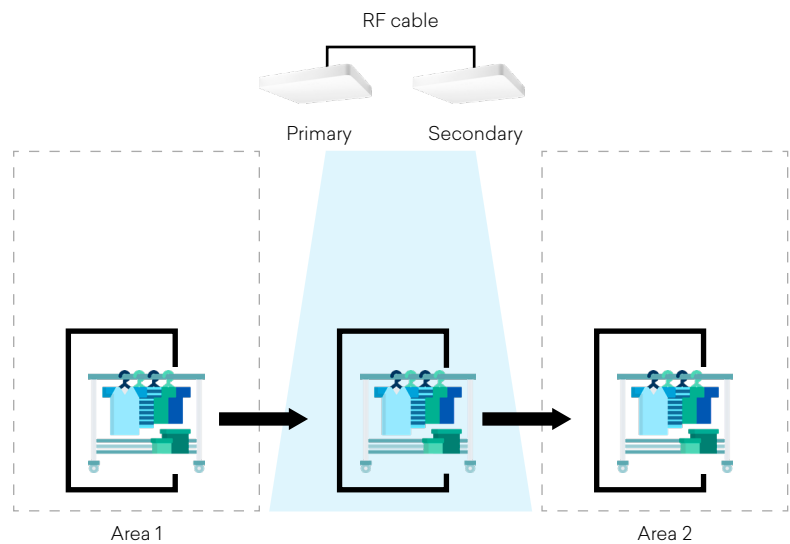
AdvanTrack-50 is an RFID UHF overhead system that accurately tracks assets, items and people in a wide variety of spaces, like corporate buildings, hospitals, factories, warehouses, etc.

AdvanTrack comprises a high performance, high flexibility reader with a high gain stationary antenna, capable of scanning all tagged items crossing below.

By using primary and secondary units, AdvanTrack achieves high read-rate and is very cost efficient:

- The primary unit comprises a reader and antenna
- The secondary unit comprises an antenna

One primary unit can be connected up to one secondary unit.





Technical specifications of AdvanTrack-50

RF connections	Two 50 ohm SMA connectors for monostatic antennas
RF Power	Programmable from 0 dBm to 30 dBm in 0.5 dBm steps (Maximum power may have to be reduced to meet regulatory limits)
Max tag read throughput	Up to 50 tags/second
Power consumption	Idle consumption < 3 W Max consumption (@30dBm) < 9 W
Dimensions	Primary: 25 cm x 25 cm x 8 cm (9,8 inches x 9,8 inches x 3,1 inches) Secondary: 25 cm x 25 cm x 4,5 cm (9,8 inches x 9,8 inches x 1,8 inches)
Weight	Primary: 1,495 kg (3296 lb) Secondary: 1,085 kg (2392 lb)

Software specifications of AdvanTrack-50

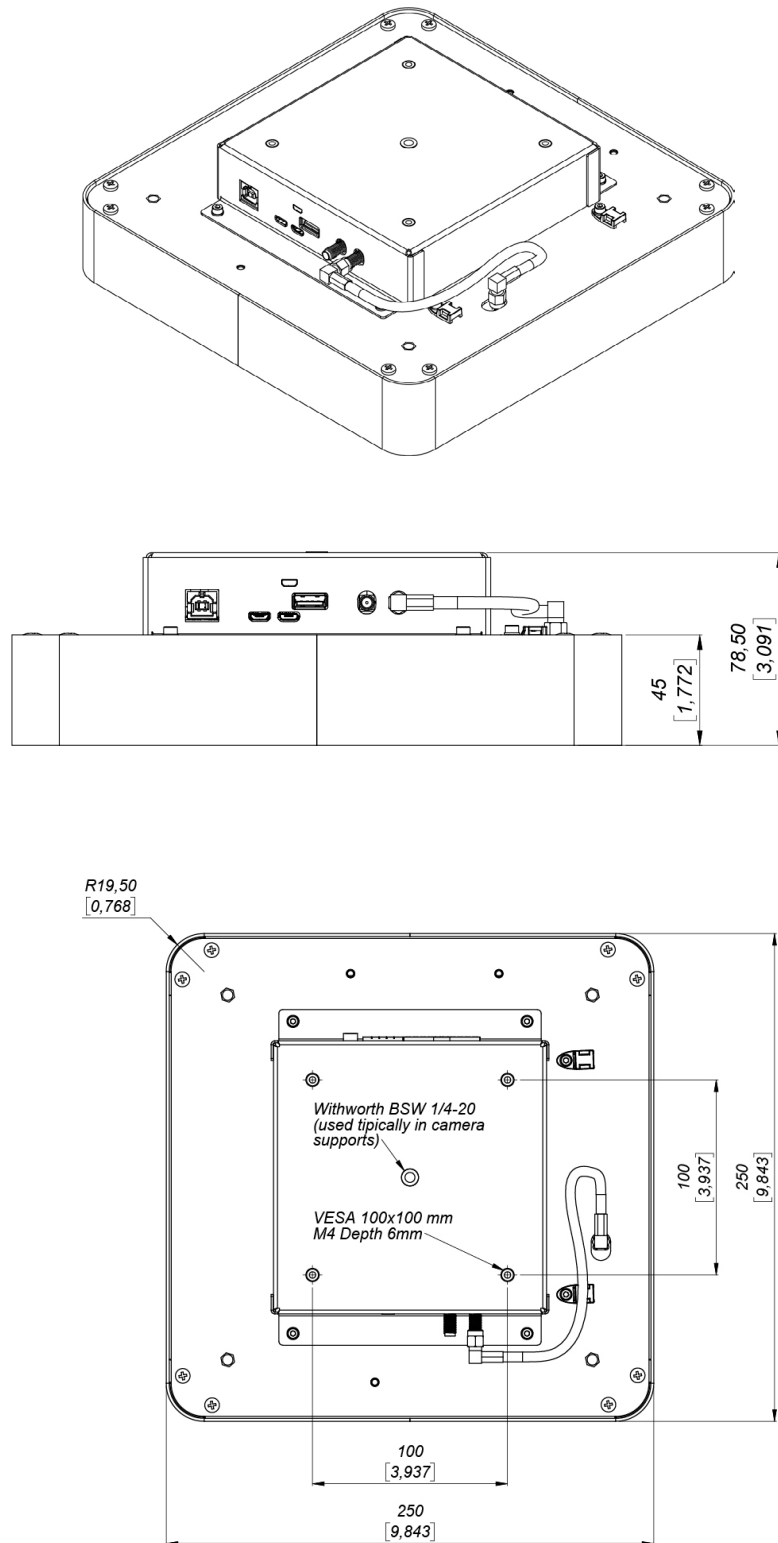
On-board intelligence	ARM board <ul style="list-style-type: none"> • Cortex A-8 CPU (1 GHz) • 512 MB RAM • 4 GByte ROM with Operating System • 1 x USB connector type A
Included software	On-board software <ul style="list-style-type: none"> • Debian 10 based distribution. • Patched kernel from the 4.14 branch • AdvanNet-2.5.x: advanced driver platform for Keonn components and systems.
Development	Embedded Development: <ul style="list-style-type: none"> • Java development: based on a modified ThingMagic Mercury API <ul style="list-style-type: none"> • Java development (Java JRE 1.8) • C development: based on Mercury API <ul style="list-style-type: none"> • C development (libc 2.24) REST API External Development: <ul style="list-style-type: none"> • AdvanNet based: <ul style="list-style-type: none"> • AdvanNet Manager: test and deploy web-based GUI utility. • REST interface that can be used in any development environment. Other options: <ul style="list-style-type: none"> • The OS is fully open¹²

RF specifications of AdvanTrack-50

Air Protocol Interface	EPC global UHF Class 1 Gen 2 / ISO 18000 - 6 C
Supported regions	FCC (NA, SA) (902 to 928) MHz ETSI (EU) (865.6 to 867.6) MHz TRAI(India) (865 to 867) MHz KCC (Korea) (917 to 923.5) MHz MIC (Japan) (916.9 to 923.4) MHz ACMA (AU) (920 to 926) MHz NZ (New Zealand) (922 to 927) MHz SRRC-MII (P.R.China) (920.125 to 924.875) MHz MY (Malaysia) (919.0 to 923.0) MHz ID (Indonesia) (923.0 to 925.0) MHz PH (Philippines) (918.0 to 920.0) MHz TW (Taiwan) (922.0 to 928.0) MHz MO (Macao) (920.0 to 925.0) MHz RU (Russia) (866.0 to 868.0) MHz SG (Singapore) (920.0 to 925.0) MHz VN (Vietnam) (866.0 to 869.0) MHz TH (Thailand) (920.0 to 925.0) MHz AR (Argentina) (915.0 to 928.0) MHz HK (Hong Kong) (865.0 to 868.0) MHz BD (Bangladesh) (925.0 to 927.0) MHz Brazil (917.4 to 927.2) MHz by using channel selection Chile(917.4 to 927.2) MHz by using channel selection Peru (917.4 to 927.2) MHz by using channel selection Taiwan (922.600 to 927.2) MHz by using channel selection Open Region (859 to 873) MHz and (915 to 930) MHz
Max tag read distance	Up to 9 m (33 feet) with 6 dBi gain antennas

Mechanical specifications

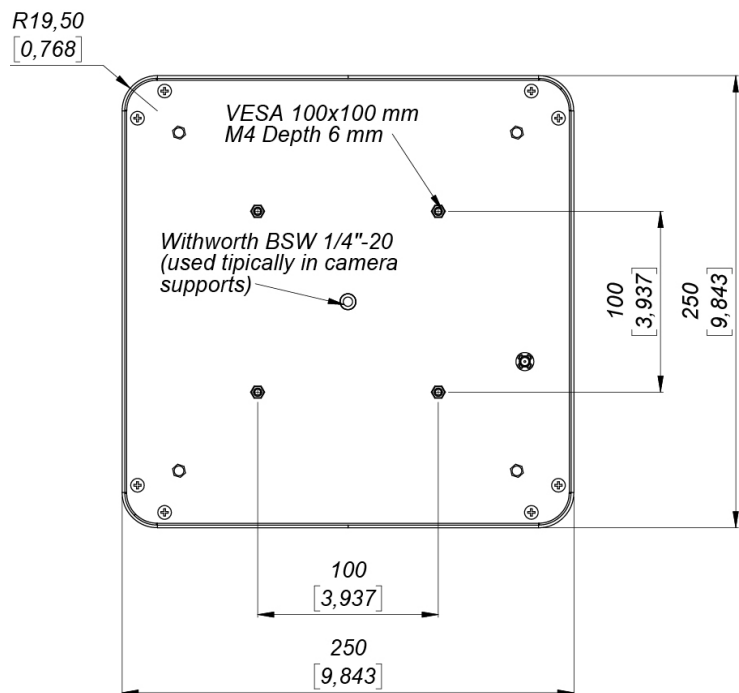
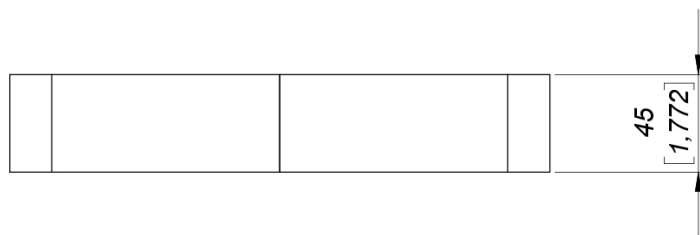
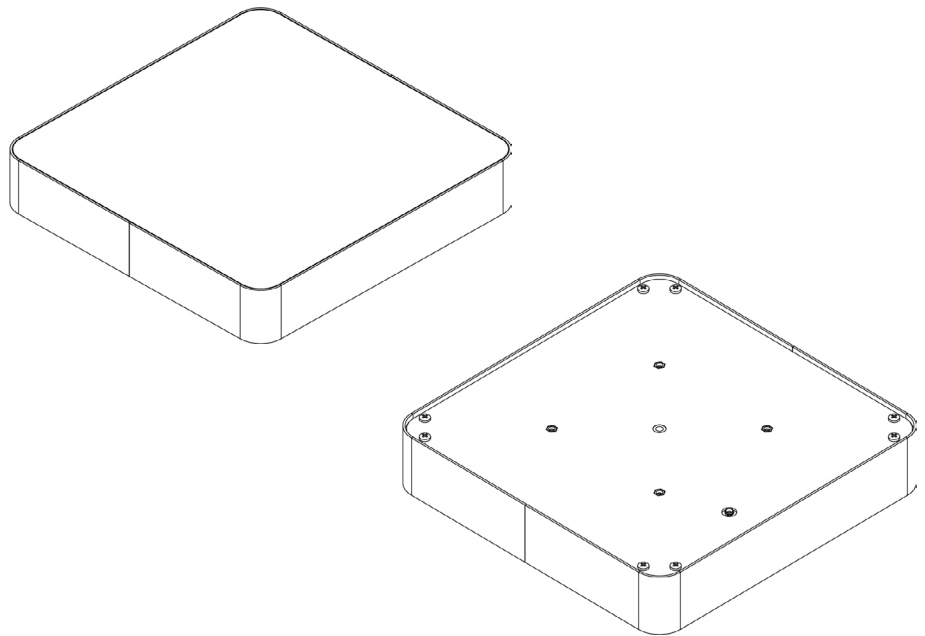
Primary unit



Units in millimeters and [inches]

Mechanical specifications

Secondary unit



Units in millimeters and [inches]

Product codes for ordering

ADTR	-	O	T	M	FF	-	MMM	
								O = Overhead
		O						Overhead
								T = Type
			M					Primary
			S					Secondary
								M = mount
				C				Ceiling / wall mount (attached to the ceiling or suspended with a pole, pole not included)
								FF = frequency band
					EU			865,6 MHz - 867,6 MHz
					US			902,0 MHz - 928,0 Mhz
								Model
							50	Model number

Examples:

ADTR-OMCEU-50:

- AdvanTrack
- Overhead
- Primary unit
- Ceiling mount (attached to the ceiling or suspended with a pole)
- ETSI frequency band
- Model 50

ADTR-OSCUS-50:

- AdvanTrack
- Overhead
- Secondary unit
- Ceiling mount (attached to the ceiling or suspended with a pole)
- FCC frequency band
- Model 50



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