A6020
Conveyor Belt Portal System

ABOUT TIMES-7

We are a high-tech company specializing in the design and manufacture of RAIN (UHF) RFID antennas.

Our journey began in 2006, when Times-7 was founded. Since then, we have developed the largest portfolio of fixed RAIN RFID reader antennas, which are famous for their quality and performance.

We are based in Lower Hutt, New Zealand, but our reach extends worldwide as we export our products through our authorized partner network.

In addition to our world-class products
and in-depth expertise, our customers
appreciate Times-7's customer service and technical support.

We are responsive in supporting a large global customer base and ensuring the success of our customer's implementations.

Times-7 Research Ltd
10 Te Puni Street
Lower Hutt 5012
New Zealand

NEW ZEALAND
P: +64 4 974 6566

USA/CANADA
P: +1 408 769 5025

E: sales@times-7.com

W: www.times-7.com

Patent Info: times-7.com/patents

A6020 Conveyor Belt Portal System

The A6020 Conyeyor Belt Portal System is a latest generation portal for conveyor belt-based UHF RFID applications.

Easily installed into existing infrastructure, the A6020 incorporates a high performance, ultra-low profile underbelt antenna, plus three low profile antennas positioned side and top of the conveyor to create a high-performance RFID portal. With a highly focused and balanced field the A6020 is optimized to read RFID tags directly on, or close to, the conveyor with incredible accuracy.
The SlimLine A6020 can achieve industry leading read and assignment rates of no less than 99.5%.

With flexible mounting and connection options available, the A6020 is custom designed for airport baggage handling conveyor systems, and all conveyor belt-based applications where a high-performance, cost-effective UHF RFID portal solution is required.

Order Information

Note: Please quote product code, band, cable type & part number

Product Code	Band	Part No.
A6020	ETSI 864-868 MHz	70820
A6020	FCC 902-928 MHz	70913

A6020
Conveyor Belt Portal System

Physical and Environmental Specifications

***Unboxed Dimensions: Length (x) x Width (y) x Depth (z)**	Portal (ETSI): 1450 x 430 x 6mm / 57 x 17 x 2.3“ Portal (FCC): 1370 x 430 x 60mm / 54 x 17 x 2.3“ Underbelt: 1200 x 600 x 12mm / 48 x 24“ x 0.5“
Weight:	Portal: 25kg / 55lbs. Underbelt: 7kg / 15.4lbs.
Radome Material:	Portal: Fire retardant ABS Underbelt: 3mm UHMWPE (Ultra-High Molecular Weight Polyethylene)
Environmental Rating:	IP53
Operating / Storage Temperature:	0° to +50°C / -30° to +60°C +32F° to +122°F / -22° to +140°F
Mounting:	Portal: Module framework assembled over conveyor Underbelt: Affixed directly onto conveyor frame (under conveyor belt)
Connector Type:	SMA (Cable accessory options on request)

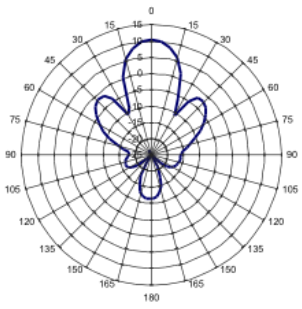
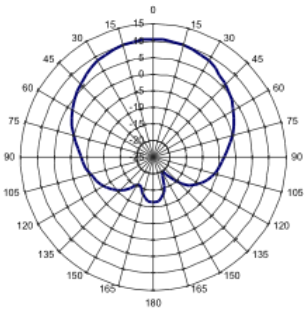
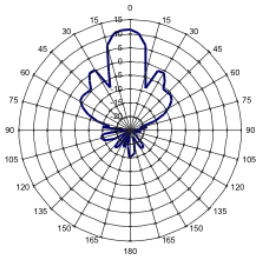
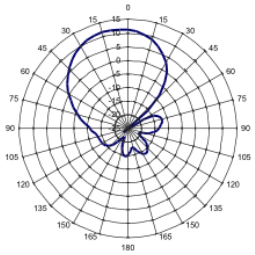
Electrical Specifications

Frequency Range:	864-868 MHz / 902-928 MHz
Polarization:	Circular
Far-field Gain:	11 dBiC typical
VSWR:	2:1 typical
Front-To-Back-Ratio:	> 22dB
Read Zone Above Belt:	≤ 900 mm
Read Zone Across Belt:	≤ 1200 mm
Nominal Impedance:	50Ω
Anti-Static Protection:	DC grounded
Antenna Detection:	10K Ω resistance
Maximum Input Power:	3W

*Azimuth Planes

Portal Antennas

Underbelt Antenna

A6020 XZ Plane	A6020 YZ Plane	A6020 XZ Plane	A6020 YZ Plane
			

A6020
Conveyor Belt Portal System

Applications

Airport Baggage Handling Systems

Our A6020 has been designed to optimize moving baggage tracking with unparalleled precision and reliability.

Conveyor Belt

The A6020 antenna is tailored for airport baggage handling conveyor systems and offers an invaluable tool for improving efficiency, accuracy, and overall logistics management. With the A6020 in place, conveyor belt operations can reach new levels of performance and precision in RFID applications, transforming the way businesses handle and track items on the move.

RFID Portal applications

The antennas, consisting of one top and two side portal frame components, can be easily assembled into a smart-looking portal. It provides flexible mounting and connector options to integrate into the existing airport infrastructure seamlessly.