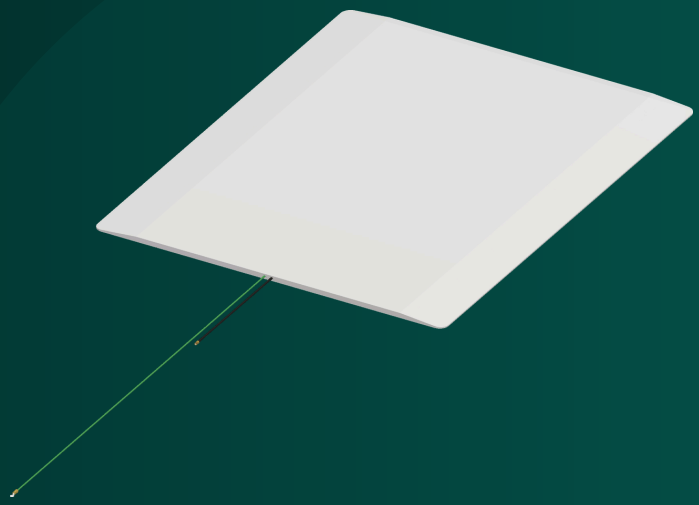
IDCRAFT
RFID & NFC EXPERTS

UHF RFID | RAIN - Conveyor Antenna
Times-7 - A6011



- RHCP, 10 to 11 dBiC gain by size
- Read zone up to 900 mm above the belt
- Only 12 mm thick, UHMWPE radome
- 1200 x 600, 1000 x 800 or 800 x 800 mm
- Built for continuous 24x7 operation

UHF RFID | RAIN - Conveyor Antenna
RHCP underbelt antenna, 10–11 dBiC, 12 mm thin, three sizes

The Times-7 A6011 is a SlimLine right-hand circularly polarised flat panel antenna array that mounts under a conveyor belt. It is available in three sizes, 1200 x 600, 1000 x 800 and 800 x 800 mm, all only 12 mm thick. The 1200 mm version delivers 11 dBiC and the 1000 and 800 mm versions 10 dBiC far-field gain, with a read zone of up to 900 mm above the belt.

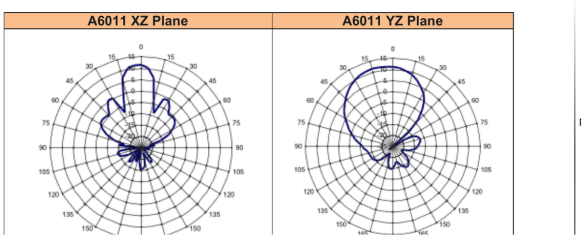
Axial ratio is 2 dB typical, so bag and carton tags read in any rotation on the belt. Read zone across the belt reaches up to 1200 mm on the 1200 mm version and up to 1000 mm on the 1000 mm version; typical VSWR is 2 or 1.8 depending on size. The antenna covers 865–868 MHz (ETSI) or 902–928 MHz (FCC), accepts up to 3 W and works with any UHF RFID reader with a 50 Ω antenna port.

An ultra-low-profile UHMWPE radome rated IP54 is designed for continuous 24x7 operation from 0 to +50 °C. The antenna is affixed directly onto the conveyor frame under the belt; an earthing cable and DC grounding provide anti-static protection, and RF connects via a 300 mm SMA female side fly lead. Combined with the A6020 Conveyor Portal Antenna, the A6011 forms a baggage portal that installs into existing airport infrastructure.

Common Applications

- Airport Baggage Handling
- Baggage Sortation
- Airport Conveyor Portals
- Parcel Conveyors
- Carton Tracking On Belts
- Conveyor Read Points

Radiation Pattern



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RFID & NFC EXPERTS

Times-7 - A6011

UHF RFID | RAIN - Conveyor Antenna

TECHNICAL SPECIFICATIONS

Electrical (All Sizes)

Frequency Range	865–868 MHz (ETSI) 902–928 MHz (FCC)
Polarisation	Right-hand circular (RHCP)
Axial Ratio	2 dB typical
Read Zone Above Belt	Up to 900 mm
Impedance	50 Ω
Anti-Static Protection	Earthing cable, DC grounded
Antenna Detection	10 kΩ resistance
Max. Input Power	3 W

Mechanical / Environmental

Thickness	12 mm
Radome	UHMWPE
Connector	SMA female, 300 mm side fly lead
Mounting	On conveyor frame, under belt
Protection Class	IP54
Operating Temperature	0 to +50 °C
Storage Temperature	-30 to +60 °C
Compliance	RoHS, CE

A6011 1200 x 600 mm

Gain / 3 dB Beamwidth	11 dBiC / 60° x 22°
VSWR / Front-to-Back	2 typical / 22 dB
Read Zone Across Belt	Up to 1200 mm
Weight	9 kg net
Part No. ETSI / FCC	70730 / 70731

A6011 1000 x 800 mm

Gain / 3 dB Beamwidth	10 dBiC / 70° x 25°
VSWR / Front-to-Back	1.8 typical / 20 dB
Read Zone Across Belt	Up to 1000 mm
Weight	8.5 kg net
Part No. ETSI / FCC	71892 / 71919

A6011 800 x 800 mm

Gain / 3 dB Beamwidth	10 dBiC / 70° x 25°
VSWR / Front-to-Back	1.8 typical / 20 dB
Weight	8.0 kg net
Part No. ETSI / FCC	71891 / 71906