

# UHF RFID CONVEYOR BELT PORTAL SYSTEM

## SlimLine - A6020

### ABOUT TIMES-7

Pushing the boundaries of RFID technology worldwide Times-7 are leaders in RFID antenna design and manufacture. Our patented award winning UHF antennas meet the needs of virtually any industry application; providing customers with fast accurate tracking of products, assets & people; empowering organizations to transform processes & reduce costs.

Our SlimLine range of antennas is unique in the RFID industry; offering high levels of performance & durability in an aesthetically superior form.

Proven in a diverse & growing range of markets, applications include: retail & customer interaction, conference & people tracking, race timing, baggage handling, and logistic & supply chain asset management.



*The SlimLine A6020*

Ultra-low profile RFID portal for conveyor belt systems

Industry leading accuracy rates  $\geq 99.5\%$

Especially suited for airport baggage systems

Easily installed into existing infrastructure

Typical applications:

Airport baggage handling systems  
& all conveyor belt-based UHF RFID applications

The SlimLine A6020 is a latest generation portal system 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.

### Physical / Environmental Specifications

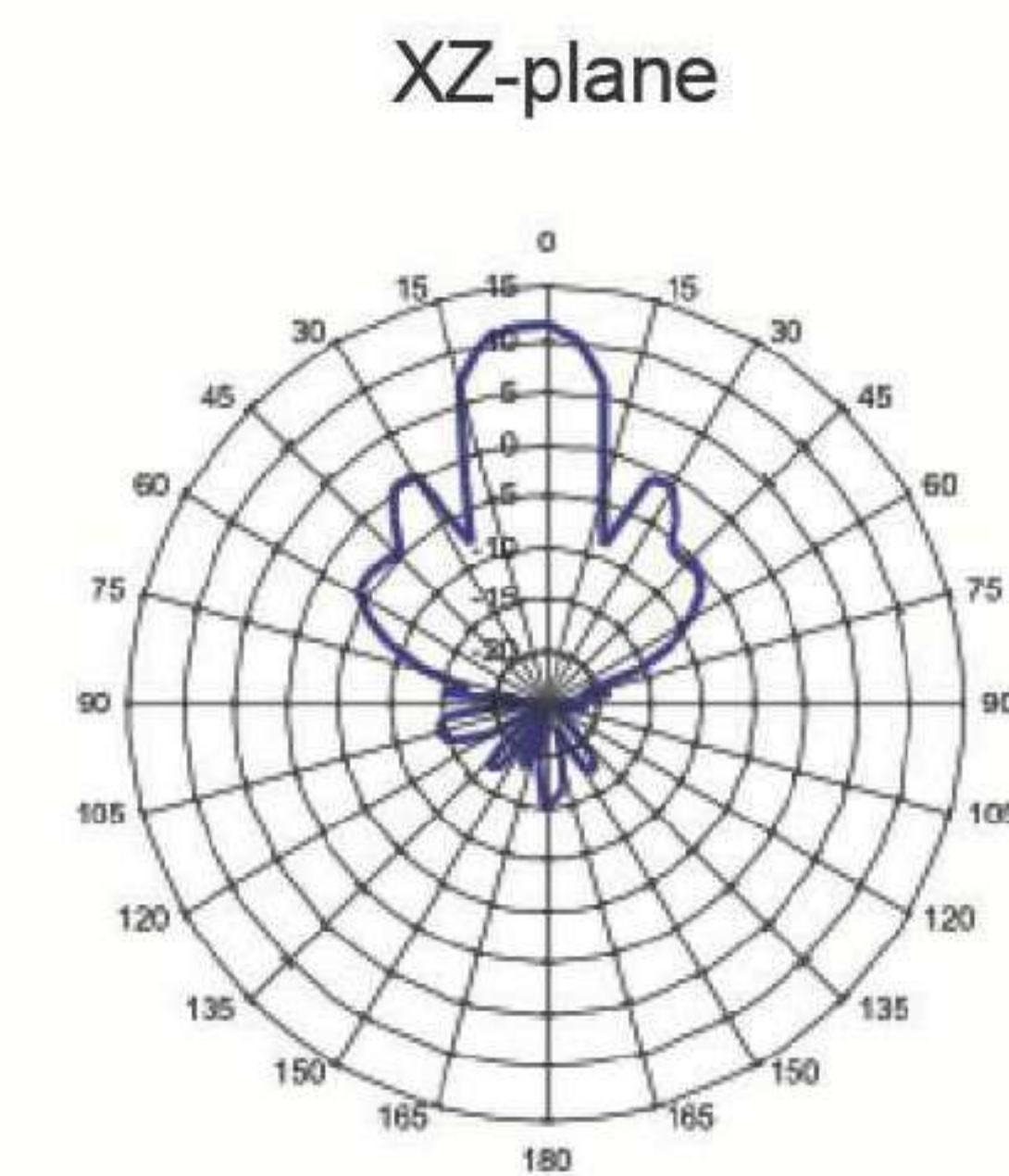
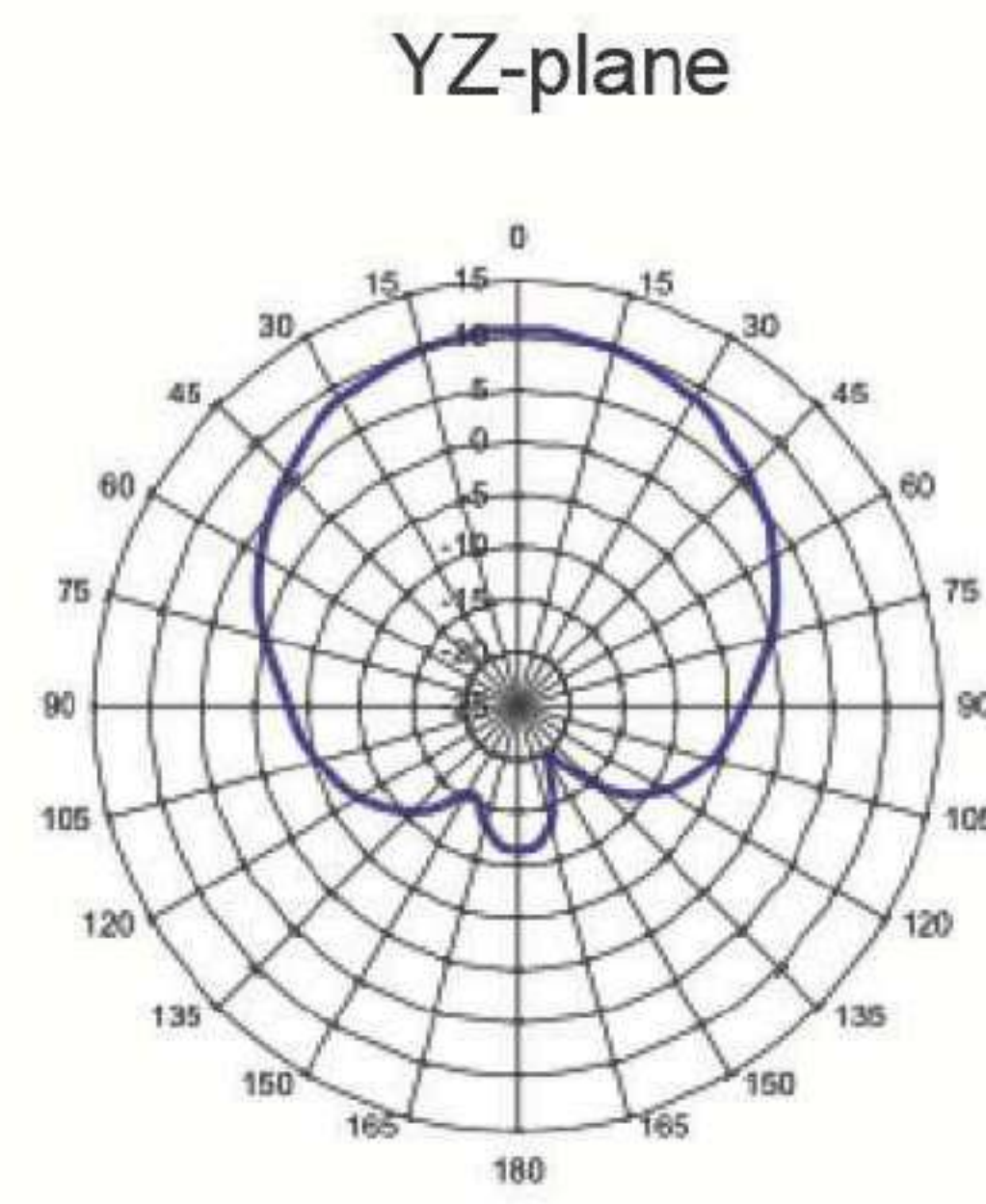
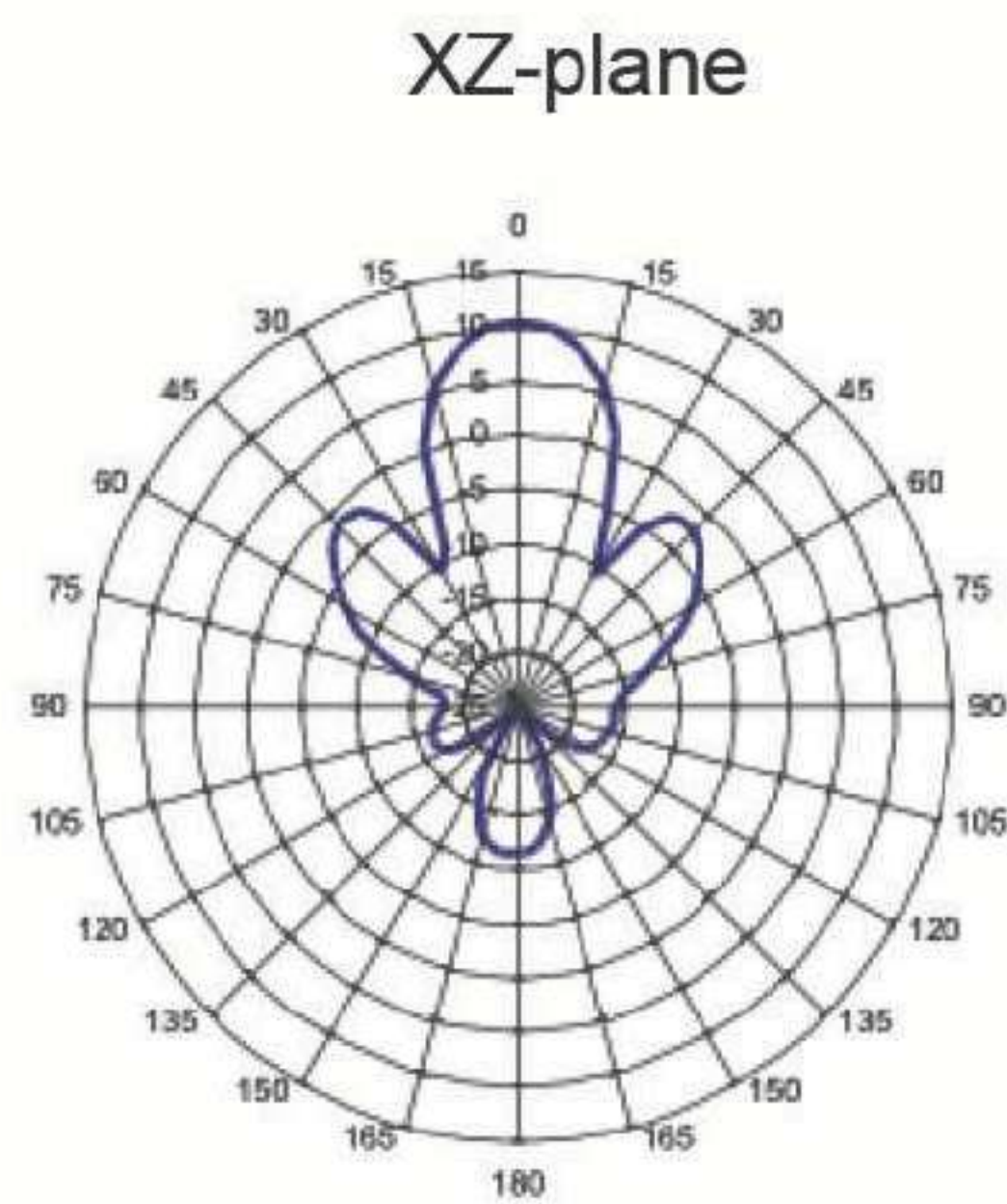
Dimensions (L x W x D):	Portal (ETSI): 1450 mm x 430 mm x 60 mm / 57 " x 17 " x 2.3 " Portal (FCC): 1370 mm x 430 mm x 60 mm / 54 " x 17 " x 2.3 " Underbelt: 1200 mm x 600 mm x 12 mm / 48 " x 24 " x 0.5 "
Weight:	Portal: 25 kg / 55 lbs. Underbelt: 7 kg / 15.4 lbs.
Radome Material:	Portal: Fire retardant ABS Underbelt: 3 mm 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

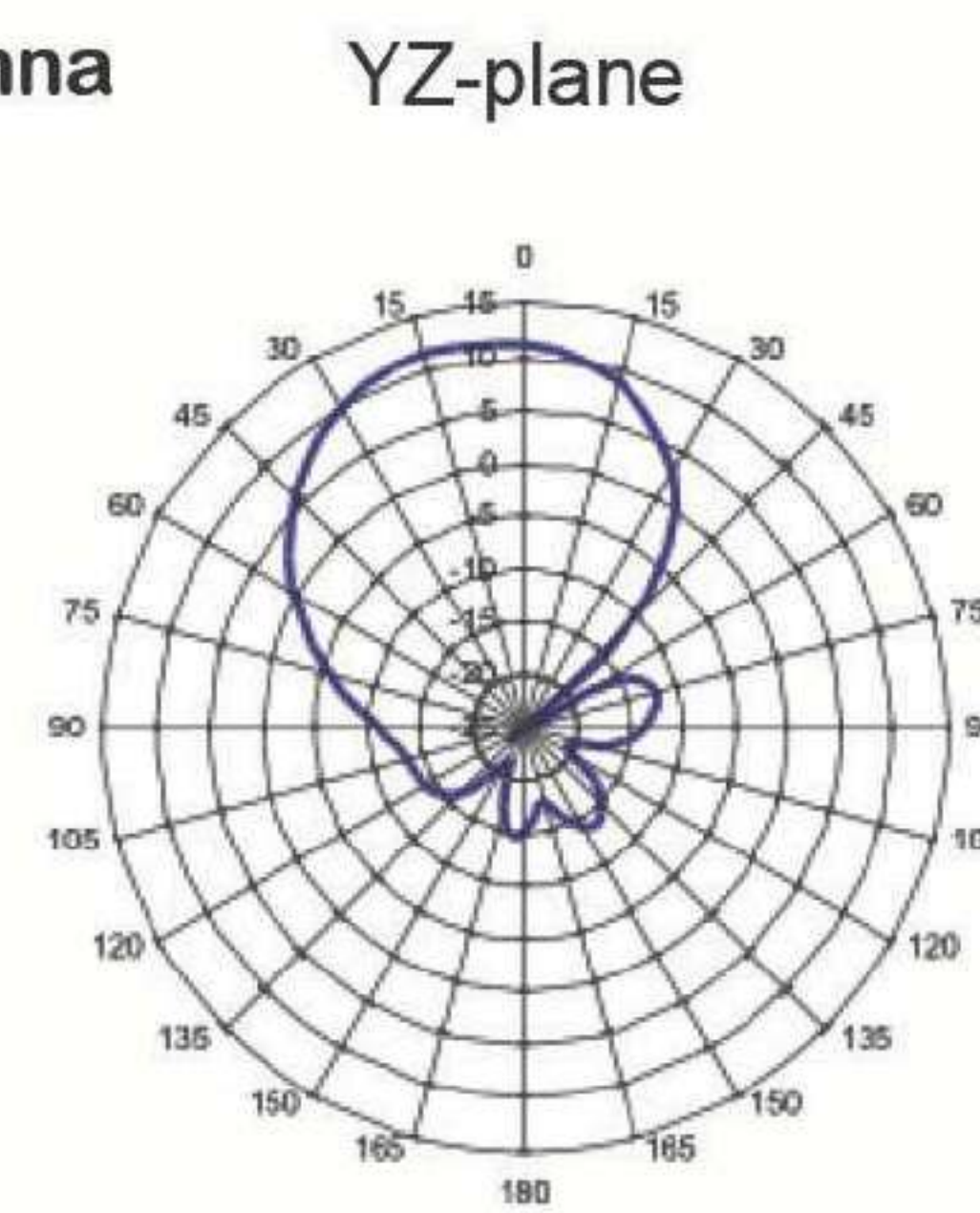
Frequency Range:	864-868 MHz / 902-928 MHz
Polarisation:	Circular
Far-field Gain:	11 dBiC
Typical VSWR across frequency range:	< 2:1
Front to back ratio:	> 22 dB
Read zone above belt:	$\leq$ 900 mm
Read zone across belt:	$\leq$ 1200 mm

### E-field elevation & Azimuth Patterns

Portal antennas (two sides & top)



Underbelt antenna



**Ordering Information (please quote both product code & part no.)**

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

## Applications

- Airport baggage handling systems
- Conveyor belt-based / RFID Portal applications



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