

Inlay Features

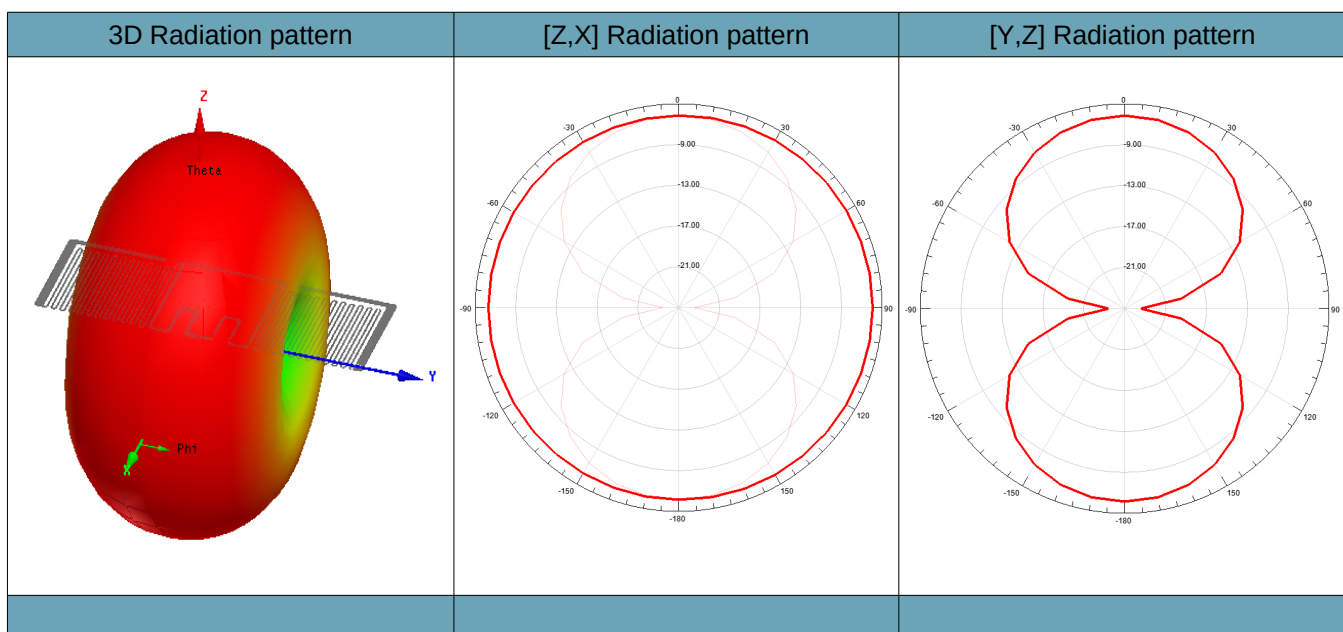
- Rain RFID compliant
- Very small form factor and good read range
- Optimized performance when attached to different materials (non metallic)
- Designed to work in environment with high density of tags
- Supports NXP UCode and EMMarin dies

Applications

- Item-level logistics

Inlay Layout and Dimensions

	UH601
Antenna width	30mm \pm 0.5mm(1.18in \pm 0.02in)
Antenna length	10mm \pm 0.5mm(0.39in \pm 0.02in)
Lengthwise pitch	30.87mm \pm 0.5mm(1.33in \pm 0.02in)
Web width	39mm \pm 0.5mm(1.53in \pm 0.02in)



Inlay Composition

Composition	Material	Thickness* [μm]
Top	Aluminium	9 ± 5%
Support	Polyester PET	38 ± 5%

* Overall thickness depends on the IC. For IC thickness please refer to the "Available ICs" table

Available ICs

	EM Marin EM4124	EM Marin EM4126	NXP UCode 7	
Product code	UH601-EM4124	UH601-EM4126	UH601-U7	
Operating frequency	860 ÷ 960 MHz			
Standard compliance	EPC Class 1 Gen2 – ISO 18000-6C			
Thickness	152μm ± 15μm	152μm ± 15μm	120μm ± 15μm	
Operating temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	
Unique serial number	32 bits in EPC & TID bank	32 bits serialized in EPC, non locked	Automatic TID based self serialization	
EPC code	96 bits	208 bits	128 bits	
User memory	-	-	-	
TID (locked)	64 bits	32 bits	96 bits	
Reserved memory	64 bits (for Kill and Access passwords)	-	64 bits (for Kill and Access passwords)	
Write endurance	10 years	10 years	20 years	
Data retention	10 000 cycles	10 000 cycles	100 000 cycles	

General supply conditions

Reel dimensions	Internal diameter	76 mm
	External diameter	< 300 mm (custom sizes available upon request)
Reel quantity	Inlay per reel	tbd