

Inlay Features

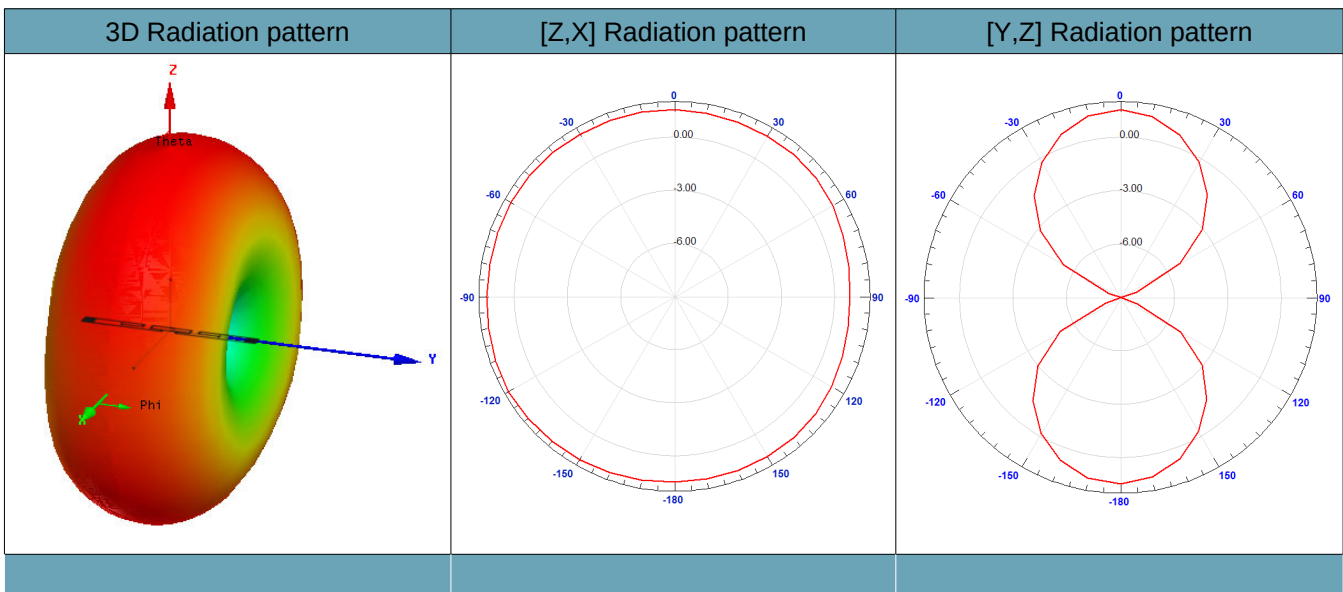
- Rain RFID compliant
- Dipole configuration
- Very long read range
- Designed to work in environment with high density of tags
- Very thin format
- Supports NXP UCode and EM Marin dies

Applications

- Logistics

Inlay Layout and Dimensions

	UH101
Antenna width	95mm ± 0.05mm(3.74in ± 0.02in)
Antenna length	8mm ± 0.05mm(0.31in ± 0.02in)
Lengthwise pitch	18.81mm ± 0.05mm(0.74in ± 0.02in)
Web width	106mm ± 0.05mm(4.17in ± 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

	NXP UCode 7	EM Marin EM4124	EM Marin EM4126
Product code	UH101-U7	UH101-EM4124	UH101-EM4126
Operating frequency	860 ÷ 960 MHz		
Standard compliance	EPC Class 1 Gen2 – ISO 18000-6C		
Thickness	120μm ± 15μm	152μm ± 15μm	152μm ± 15μm
Operating temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Unique serial number	Automatic TID based self serialization	32 bits in EPC & TID bank	32 bits serialized in EPC, non locked
EPC code	128 bits	96 bits	208 bits
User memory	-	-	-
TID	96 bits	64 bits	32 bits
Reserved memory	64 bits (for Kill and Access passwords)	64 bits (for Kill and Access passwords)	-
Write endurance	20 years	10 years	10 years
Data retention	100 000 cycles	10 000 cycles	10 000 cycles

General supply conditions

Reel dimensions	Internal diameter	76 mm
	External diameter	< 300 mm (custom sizes available upon request)
Reel quantity	Inlay per reel	20 000 ± 10% (custom sizes available upon request)