



INLAY

Aerial.G2iM



Aerial is designed for supply chain management, apparel and brand protection application offering global performance also on frequency detuning material like cardboard and plastic.

USER BENEFITS

- High Quality antennas
- Outstanding User Memory size of 512 bit
- Consistent performance on different materials
- Product identification through unalterable TID range
- ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support

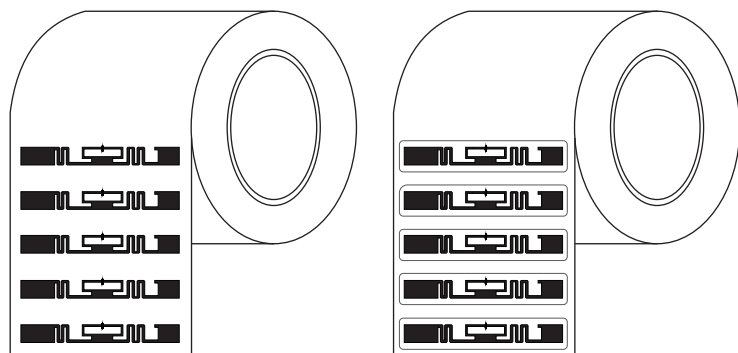
PHYSICAL SPECIFICATION

Operating Frequency	860-960 MHZ
Integrated Circuit (IC)	NXP UCODE G2iM
Antenna Size	94.0 x 10.5 mm
Die Cut Size	98.0 x 14.5 mm
Delivery Format	Dry Inlay and Wet Inlay
Protocol Supported	EPC Class1 Gen2, ISO 18000 6C

TYPICAL APPLICATIONS

- Apparel
- Brand Protection
- Industrial Automation
- Supply Chain Management
- Asset Management
- Sports Timing
- Shipping Labels
- Cost efficient, low level seals

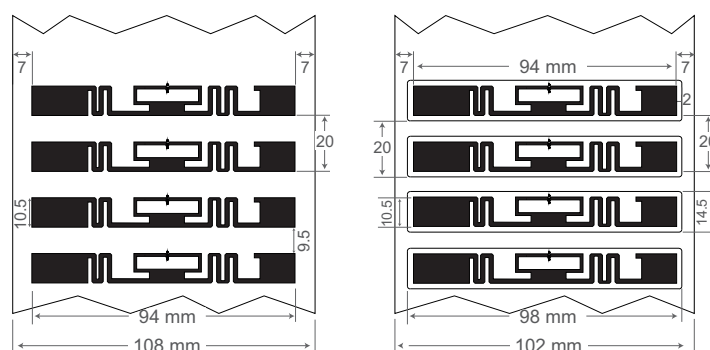
AERIAL INLAY ORIENTATION



Dry Unslit Inlay Roll

Wet Inlay

AERIAL INLAY SPECIFICATION



Aerial (Dry Unslit Roll)

Aerial (Wet Inlay)

AERIAL - SPECIFICATIONS

DRY INLAY

Antenna Width	94.0 mm
Antenna Length	10.5 mm
Antenna Pitch	20.0 mm
Web Width	108.0 mm
Core ID	76.0 mm
Inlays Per Roll	20,000 Nominal

WET INLAY

Inlay Width	98.0 mm
Inlay Length	14.5 mm
Inlay Pitch	20.0 mm
Web Width	102.0 mm
Core ID	76.0 mm
Inlays Per Roll	20,000
Inlay Adhesive	General Purpose Permanent
Adhesive Service Temp.	-20° C to +70° C

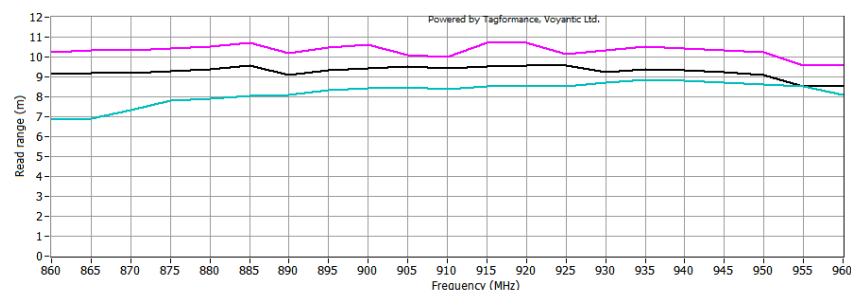
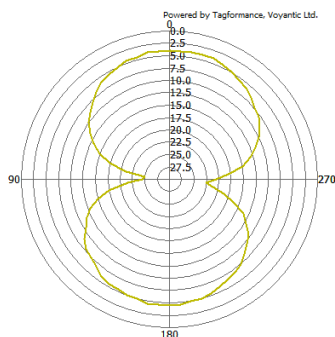
ENVIRONMENTAL

Shelf Life	2 years at +25° C @ 40% RH
Recommended Storage	+25° C @ 40% RH
Storage Limits	-25° C to +50° C , 20% to 90% RH Non-condensing
Operating Temperature	-40° C to +85° C
Bend Diameter	> 50 mm
Pressure	< 5N/mm ²

RFID

Protocol Supported	EPC Class1 Gen2, ISO 18000 6C
Integrated Circuit	NXP UCODE G2iM
Operating Frequency	860-960 MHZ
EPC Size	256 bit
User Memory	512 bit
TID	96 bit
Kill and Access Password	32 bit each

AERIAL ANGULAR SENSITIVITY AND READ RANGE



Aerial G2iM Plastic
Aerial G2iM Free air
Aerial G2iM Cardboard



All graphs are indicative, performance in real life application may vary. The data has been determined in test lab environment where antenna with optimum directivity is used with maximum allowed operating power. Different surface materials and environments may have effect on performance.



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