

# INVENGO GREAT WALL™ DRY INLAY



80% of real size

NXP UCODE7



## About Invengo's Great Wall™

The Invengo Great Wall™ tags and inlays, equipped with the NXP UCODE7 IC's, are designed to enable end-users to reach and sustain high levels of performance in all global RAIN RFID (UHF) frequency regions. Within the area of global retail, industrial automation and supply chain, Invengo's Great Wall™ tags and inlays can be called one of the best in class.



Invengo – the global RFID technology provider – is a leading developer and manufacturer of high quality, intelligent RAIN RFID (UHF) and HF/NFC connectivity solutions and consumables (tags & inlays) utilized in the Internet of Things. With a focus on RFID innovation, Invengo has created a leading product line in retail, (industrial) laundry, library, (public) transportation, healthcare and many other industries.

Invengo Technology Pte. Ltd. (SG) is the International Headquarters of Invengo Information Technology Co. Ltd, listed on Shenzhen Stock Exchange (SZSE: 002161.SZ). Employing over 600 people globally, Invengo is one of the largest publicly traded, RFID oriented companies in the world.

## Key Benefits

- High performance product with excellent performance on lower detuning materials
- Serialized TID
- ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support
- 100% Quality Tested

## Application Areas

- Global Retail
- Industrial Automation
- Supply Chain Management

# Product Specifications

## RFID

<b>Protocols Supported</b>	EPCglobal C1 Gen 2, ISO/IEC18000-63
<b>Integrated Circuit (IC)</b>	NXP UCODE7
<b>Operating Frequency</b>	840 to 960MHz
<b>EPC size</b>	128 bits
<b>TID</b>	96 bits including 48 bits serialized number
<b>Access password</b>	32 bits
<b>Kill password</b>	32 bits

## Environmental

<b>Operating Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Recommended</b>	-20°C to 77°C (-4°F to 122°F)
<b>Storage Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Recommended</b>	25°C (77°F)
<b>Shelf Life</b>	Min. 2 yrs from date manufacturing in 20°C (68°F) @ 50% RH
<b>Bending Diameter</b>	> 50 mm, tension max. 10 N
<b>Static Pressure</b>	<10 MPa (10 N/mm <sup>2</sup> )
<b>ESD</b>	± 2000V peak
<b>Data retention</b>	50 years
<b>Endurance</b>	100.000 cycles

## Dimensions

<b>Antenna Size (A x B)</b>	94 x 10 mm (3.70 x 0.39 in)
<b>Web Width (E)</b>	106 mm (4.17 in)
<b>Pitch (F)</b>	20 mm (0.79 in)
<b>PET Thickness</b>	0,05 mm (0.002 in)
<b>Antenna Thickness</b>	0,009 mm (0.0003 in)
<b>Core Size (H)</b>	76 mm (3 in)

## Order Information

<b>Product code</b>	XC-TF8030-B-C16
<b>Packaging</b>	Carton boxes
<b>Box Size</b>	350x350x180mm (13.78x13.78x7.09 in)
<b>Weight</b>	± 2,0 kg (4.41 lbs)/roll ± 2,7 kg (5.95 lbs)/box
<b>Quantity pc p/roll; roll p/box</b>	15000 pcs/roll; 1 rolls/box

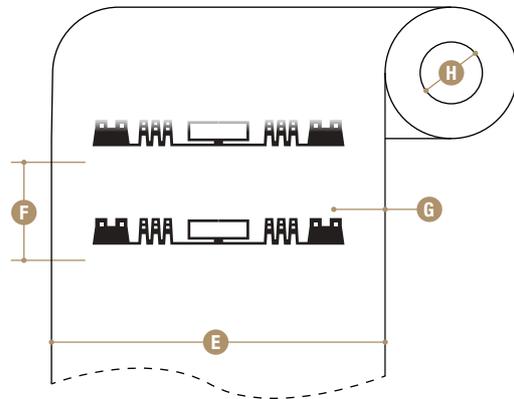
## Inlay Design



## Inlay Stackup



## Winding / Dimensions



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