

INVENGO GREAT WALL™ LABEL



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

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

Environmental

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

Dimensions

Antenna Size (A x B)	94 x 10 mm (3.70 x 0.39 in)
Die-cut Size (C x D)	96 x 12 mm (3.78 x 0.47 in)
Web Width (E)	100 mm (3.94 in)
Pitch (F)	20,7 mm (0.82 in)
PET Thickness	0,05 mm (0.002 in)
Antenna Thickness	0,009 mm (0.0003 in)
Die-cut to edge (G)	2 mm (0.08 in)
Core Size (H)	76 mm (3 in)

Order Information

Product code	XC-TF8030-B-C16-FPI
Packaging	Carton boxes
Box Size	265x253x120mm (10.43 x 9.96 x 4.72 in)
Weight	± 2,0 kg (4.41 lbs)/roll ± 2,3 kg (5.07 lbs)/box
Quantity pc p/roll; roll p/box	4000 pcs/roll; 1 rolls/box

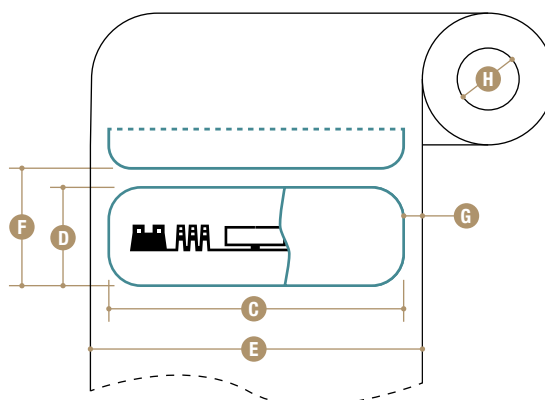
Inlay Design



Inlay Stackup

	Paper Face
	Adhesive
	PET Substrate
	Aluminium Antenna
	IC
	Adhesive
	Silicone Liner

Winding / Dimensions



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