



a **TXCOM** brand
G R O U P



TAG

FLYtag[®] skin SMALL

Technology chosen by 50 OEMs

AS5678 – DO160

ATA Spec 2000 Ch. 9-5 – TDS 1.11
Printable & Engravable **AIRBUS & BOEING** Compliant UHF Wide-band Worldwide

APPLICATIONS

FLYtag[®], selected by Airbus for the A350 XWB's first RFID parts marking program, has become the standard for the aviation industry. FLYtags are designed for identification and maintenance, repair and overhaul tracking applications throughout the civil and military aircraft and aerospace industries.

ORDER CODE

FLYtag [®] skin Small 2 Kb WHITE	12409
FLYtag [®] skin Small 64 Kb WHITE	12411
FLYtag [®] skin Small 2 Kb BLACK	12419
FLYtag [®] skin Small 64 Kb BLACK	12420

Related products

Zebra [®] Printer R110Xi4-ATAEU	12382
Zebra [®] Printer R110Xi4-ATAUS	12383
Laser engraving unit RP130-ATA EU	12427
Laser engraving unit RP130-ATA US	12428
Motorola MC9190-Z EU 869Mhz	12378
Motorola MC9190-Z US 915Mhz	12379
FLYtag [®] manager	12020
FLYplug [®] Package	see FLYplug [®] leaflet

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INSIDE & OUTSIDE, ALL SURFACES & ENGRAVABLE

ATAspec 2000 High & Low Memory

FLYtag[®], the best-selling flyable RFID parts marking solution, is the choice of the leading aircraft manufacturers and subsystem suppliers of the aerospace industry. MAINtag inventor of the hybrid integrated RFID label has especially design FLYtag[®] skin to allow metal/carbon and non-metal parts to meet all required specifications for flyable parts. FLYtag[®] skin is engravable, adhesive, cost-effective and versatile.

Complying with SAE - AS5678 / ATA Spec 2000 Chap. 9 / TDS 1.11, FLYtag[®] skin is built around FLYchip[®] the best Dual/Single (2 Kbits) and Multi-record (64 Kbits) passive contactless UHF technology and meets ISO 18000-6C and ATA Spec 2000 Chap. 9-5 Appendix 11 standards. The EPC structure complies with the latest TDS 1.11 standard. Data retention is over 30 years. The adhesive packaging and chip are designed in accordance with SAE-AS5678 requirements. FLYtag[®] skin can be used in cabin & non-pressurized areas. Communication with the chip, including access to all user memory, can be performed by any standard Gen2-compatible reader.

FLYtag[®] skin supports all mandatory functionalities and modes as defined by the ISO/IEC 18000-6 Type C (EPCglobal Gen2) air interface specifications, including Miller encoding. Proprietary or non-standard commands are never necessary.



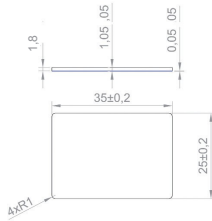
Laser engraving



RUGGEDIZED FOR USE IN CABIN & NON-PRESURIZED AREAS

FLYtag® skin Small outline

35 x 25 x 1,8mm



Laser engraving



Laser engraving



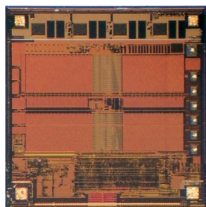
12419 - 35x25mm 2 Kbits
12420 - 35x25mm 64 Kbits



FLYchip® Single, Dual & Multi-Record



UHF Memory Chip



2kbits / 64kbits

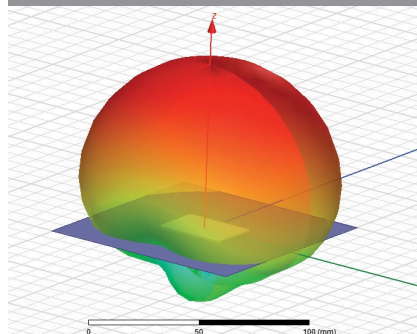
Minimum operating reading power: -15dBm

Implementing the latest UHF technology, MAINTag's IC FLYchip family become a reference for the aerospace industry

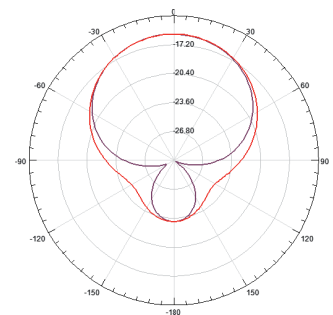
CHARACTERISTICS

Footprint	35 x 25 x 1,8mm
Reading distance	Up to 1,5m / 4,92 ft
Installation area	Non-Pressurized areas Cabin interior areas
Standards & Air interface	Fully passive design, EPCglobal Gen2 UHF-ISO 18000-6C / 850-960 MHz / TDS 1.11 SAE AS5678 ATA Spec 2000 Chap 9-5 Appendix 11
Memory High mem. & Low mem.	Non-volatile, read and write access. EPC global Class 1 Gen 2 protocol 1.2.0 as well as ISO/IEC 18000-6C - 496bits EPC & XTID FLYchip® 2Kbits [12419] - FLYchip® 64Kbits [12420]
Receive/Trans. Rate	Min 40 Kbps - max 160 Kbps / Min 40 Kbps - max 640 Kbps
Long memory life	Minimum 30 years data retention Atmospheric radiation resistant
Weight	4,3g +/- 0,3g
Temperature (min/max)	-55°C to +150°C / -67°F to 302°F in service. Peaks at 250°C / 482°F RTCA DO-160 §4.5.1 & §4.5.3 cat. D2 – RTCA D160 §5 – S2
Humidity / Fungus	RTCA DO-160 §6C - RTCA DO-160 §13F
Vibration / shocks	RTCA DO-160 §8 R - RTCA DO-160 §7 E – 20g / 20ms
Flammability	14 CFR, Section 25.853 (a) & appendix F, Part 1 paragraphe (a)(1)(ii)
Toxicity / Smoke	Compliant with ABD0031
Packaging & material	FLYtag® skin tags come in rolls of 200 units in sealed plastic bags High-performance printable polymer material that ensures outstanding adhesive bond strength and thermal/chemical durability
Chemical compatibility	Low humidity absorption, hydrolysis proof, high compatibility with lubricants and hydrocarbons. ABD0100.1.2-061-G, 70°C - Aeroshell Grease 33 DO-160 §11F, 70°C - Skydrol type IV
Adhesive	3M VHB family – Application design approved

3D radiation pattern



2D radiation pattern



MAINTag – Groupe TXCOM

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