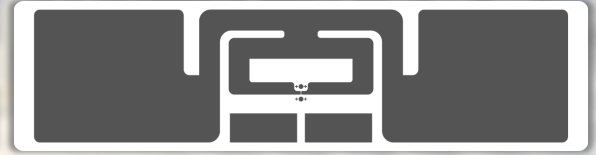# TAGEOS

EOS-500

The Tageos EOS-500 is a wide-band Gen2 UHF RFID label suitable for worldwide supply chain applications to identify pallets and more specifically, cases and items for secure track & trace purposes.

APPLICATIONS

Logistics   Asset tracking   Apparel

GENERAL
SPECIFICATIONS

Frequency	FCC 902–928 MHz / ETSI 865–868 MHz / ASIA 950–956 MHz
Protocol	EPC Class 1 Gen 2
EPC memory	Up to 480 bits
User memory	Up to 512 bits
Antenna size	93 x 23 mm / 3.66 x 0.91 in
Label size	100 x 26 mm / 3.94 x 1.02 in

AVAILABLE
FORMATS

Adhesive label

MECHANICAL
DIMENSIONS

DIMENSIONS	DESCRIPTION	METRIC	US
A x B	Antenna size	93 x 23 mm	3.66 x 0.91 in
C x D	Label size	100 x 26 mm	3.94 x 1.02 in
E	Web width	106 mm	4.17 in
F	Pitch	30 mm ± 0,5 mm	1.18 in
G	Die-cut to web edge	3 mm	0.12 in
H	Bad mark	Ø 4 mm	Ø 0.16 in
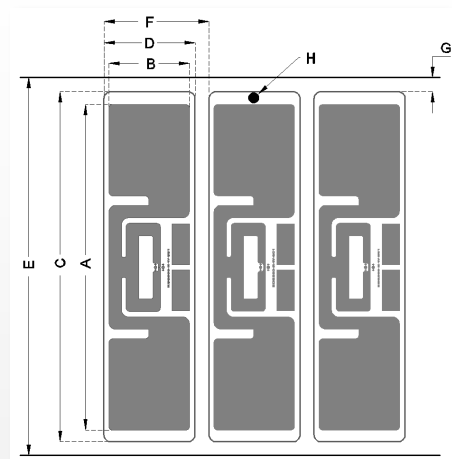
FEED DIRECTION →

RFID CHIP
SILICON

| TAG SILICON	ALIEN HIGGS 3	NXP UCODE 7	IMPINJ MONZA R6	IMPINJ MONZA R6-P
Protocol	EPC Class 1 Gen 2	EPC Class 1 Gen 2	EPC Class 1 Gen 2	EPC Class 1 Gen 2
Operating frequency	860 – 960 MHz	860 – 960 MHz	860 – 960 MHz	860 – 960 MHz
EPC memory	Up to 480 bits	128 bits	96 bits	Up to 128 bits
User memory	512 bits	-	-	Up to 64 bits
Operating temperature	-50°C / +85°C (-58°F / +185°F)	-40°C / +85°C (-40°F / +185°F)	-40°C / +85°C (-40°F / +185°F)	-40°C / +85°C (-40°F / +185°F)

PRODUCT
CHARACTERISTICS

	ADHESIVE LABEL
Antenna material	Aluminum
Front face material	White TT printable paper White TT printable plastic
Back face material	-
Adhesive	Solvent-free permanent acrylic adhesive
Final inspection	100% tested, defective tags marked

TAG READ
PERFORMANCE

Read Range

Free space | Cardboard | Plastic
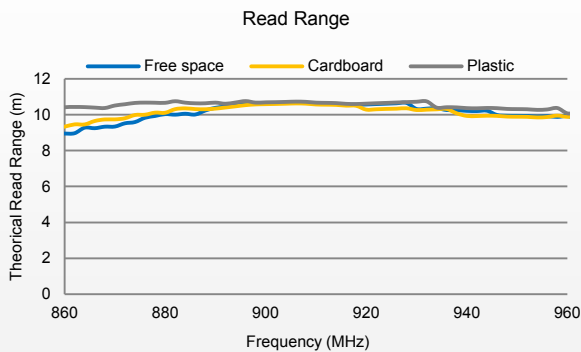
Orientation sensitivity

Test set-up
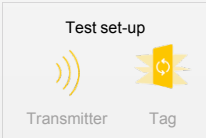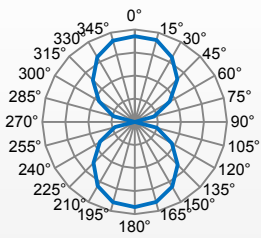
Transmitter | Tag

All the graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a 2W ERP output power level and an Impinj Monza R6-P tag silicon.

DELIVERY
CONDITIONS

	ADHESIVE LABEL
Packaging	Roll (single row)
Core inner diameter	76 mm / 3 in
Roll outer diameter	200 mm / 7.87 in
Unwinding direction	Labels on outside of roll
Standard roll size	4000 pcs
Minimum order quantity	One roll

CERTIFICATIONS &
APPROVALS

ZEBRA | TOSHIBA | SATO

European EPC Competence Center | University of Auburn Radio Compliance Center

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