



SKU:	RS-TP512-CR80
Chip Type:	Broadcom® Topaz512
Frequency:	HF 13.56 MHz
Protocol:	ISO/IEC 14443-A, NFC Forum Type 1
User Memory:	480 bytes
UID Memory:	7 bytes
EEPROM:	512 bytes
Read Range:	Up to 10 cm
Industry:	Access Control, Events, Transportation
Applications:	Public Transportation, Event Ticketing, Access Control, Loyalty System, E-Government & Identity

Broadcom® Topaz512 NFC Card

The Topaz512 NFC Forum Type 1 Card is a cost-effective and reliable solution for a wide range of contactless applications. Designed to comply fully with NFC Forum Type 1 and ISO/IEC 14443-A standards, this card features a 7-byte unique identifier (UID) for secure authentication and 480 bytes of user memory for flexible data storage. Its lightweight design makes it ideal for use in loyalty programs, smart posters, and access control, providing seamless interaction with NFC-enabled devices across diverse ecosystems.

Built for efficiency and compatibility, the Topaz512 operates at 13.56 MHz and supports fast, reliable communication for simple NFC tasks. Its durable construction ensures long-term usability, while the ample user memory allows multiple small-scale applications to coexist. Whether used in retail, marketing, or office environments, the Topaz512 NFC card offers an easy-to-integrate, secure, and scalable contactless solution.

Physical Information	Material	Black Core PVC, White Core PVC, White Core PET (WEEE Directive✓), White Core ABS (WEEE Directive✓), Wooden (WEEE Directive✓)
	Card Size	86×54×0.88 mm (3.4"×2.2")
	Operating Environment	-20°C~+50°C, 20%~80% RH
	Storage Environment	+18°C~+28°C, 20%~90% RH
	Surface Treatment	Glossy, Matte or Frosted
	Personalized Printing (NA For Wooden Cards)	Thermal Transfer/Dye Sublimation
	Customization Options (NA For Wooden Cards)	Pre-Printing, Barcode Printing, Embossing, Holograms, Signature Panels, UV Printing, Hot Stamping, Punch Holes
	Care Tips	1. Avoid excessive bending 2. Keep away from water 3. Store in cool and dry place
	Cleaning Tips	1. Use a soft, dry cloth 2. Avoid harsh chemicals or abrasive cleaners 3. Remove stains immediately

Technical Information	Operating Frequency	13.56 MHz
	Communication Protocol	ISO/IEC 14443-A, NFC Forum Type 1
	Chip Type	Broadcom® Topaz512
	User Memory	480 bytes
	UID Memory	7 bytes
	EEPROM	512 bytes
	Date Retention	5 years
	Write Endurance	10,000 times
	Reading Distance	Up to 10 cm

Packaging Information	Packing Format	Single pieces, piece by piece
	Packing Quantity	200 pcs/case, G.W.: 1.3 kg
	Packing Method	1000 pcs or 2000 pcs/carton
	Carton Dimension	1000 pcs: 23×20×17 cm (G.W.: 7 KG); 2000 pcs: 48×23×14 cm (G.W.: 13 KG).

● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment.
 ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage.
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