

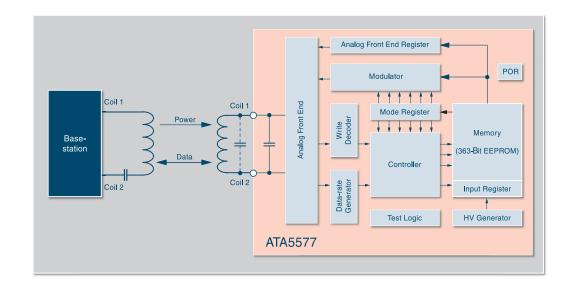
Multifunctional 363-Bit Read/Write RFID IDIC ATA5577

Atmel® offers a broad range of RFID devices for contactless read/write RF identification systems, delivered as die on wafer, die in tray, die on tape, micromodule, or complete transponder in a plastic package. Our low-frequency IDIC® products (100 to 150 kHz) with different security levels are flexible for all kinds of applications, easy to design-in and well-matched.

Features

- Contactless 100 kHz to 150 kHz Read/Write Identification IC (IDIC)
- Version M1 Standard Pads
- Version M2 Mega Pads
- Backwards Compatible to e5550/51 in Most Common Modes
- Backwards Compatible to T5557 and ATA5567
- On-Chip Capacitor 0 pF, 75 pF, 250 pF, or 330 pF, trimmed
- 224-Bit User Memory (7 Blocks of 32 bits Each),
 OTP Functionality
- 64-Bit Unique ID
- 32-Bit Analog Front End Register

- 32-Bit Configuration Register
- Binary Selectable Data Rate (RF/2 to RF/128)
- Modulation/Codings (FSK/PSK/ MAN/Bi-Phase/ NRZ)
- Password Mode
- Inverse Data Output
- 32-Bit Password (Protection Against Unauthorized Access)
- High Temperature Data Retention (24h at 250°C)
- Operating Range of -40°C to +85°C
- Fast Communication Protocols
- Self-Timing Downlink Protocols





Applications

- Access Control ISO Cards, Key Fobs, and Coins
- Asset Management
- Animal Identification (Supporting ISO 11784/11785 - FDX-B)
 - Livestock Tracking
 - Pigeon Racing Tags
- Waste Management ISO 11784/11785 (Non-Animal Mode)
- Laundry
- Manufacturing and Logistics
 - Material Handling
 - Recycling
 - Cylinder Tracking



The EEPROM is made up of two pages. Page 0 consists of 8 blocks, including configuration register and 32-bit password. Page 1 includes three blocks of 32 bits each and contains the 64-bit unique ID and the analog front end register. Each block can be protected against reprogramming via a lock bit.



	0	132	
Page 1	L	Analog Front End Option Setup	Block 3
	1	Traceabilty Data	Block 2
	1	Traceabilty Data	Block 1
	L	Page 0 Configuration Data	Block 0
Page 0	L	User Data or Password	Block 7
	L	User Data	Block 6
	L	User Data	Block 5
	L	User Data	Block 4
	L	User Data	Block 3
	L	User Data	Block 2
	L	User Data	Block 1
	L	Configuration Data	Block 0

Password Mode

The memory of the ATA5577 can be protected against unauthorized access. The password mode provides write protection and - in combination with the AOR feature - read protection.

Support Tools

- Application Kits ATAK2270, ATA2270-EK1
- Application Notes
- Qual Packs

- Datasheet

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Literature Requests www.atmel.com/literature

Web Site

www.atmel.com

Ordering Information

Part Number	On-Chip Cacity Value pF ccc	Package	Description
ATA5577M#		-xxx	
	000 ¹⁾ 075 ¹⁾	DDB	6" Sawn Wafer on Foil with Ring, Thickness 150 µm (Approx. 6 mil)
ATA5577M1		DBB	6" Sawn Wafer on Foil with Ring and NiAu Bumps 25 μm , Thickness 150 μm (Approx. 6 mil)
(Standard Pads)	250	DDW 1)	6" Wafer, Thickness 280 μm (approx. 11 mil)
	330	DDT 1)	Die in Waffle Pack, Thickness 280 µm (Approx. 11 mil)
		PAE 1)	NOA3 Micromodule (Lead-free)
ATA5577M2	000 ¹⁾ 075 ¹⁾ 250 330	DBB	$6"$ Sawn Wafer on Foil with Ring and Au Bumps 25 μm , Thickness 150 μm (approx. 6 mil)
(Mega Pads)		DDT 1)	Die in Waffle Pack, Thickness 150 µm (Approx. 6 mil)

¹⁾ On Request

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