

# MIFARE Ultralight® Family



	MIFARE Ultralight® Family			
	MIFARE Ultralight Nano	MIFARE Ultralight EV1		MIFARE Ultralight C
RF Interface	ISO/IEC 14443-2, Type A			
Protocol	ISO/IEC 14443-3			
UID – unique identifier	7-byte UID			
Communication speed	106 Kbps			
Memory size [Bytes]	40	48	128	144
Memory Model	Compact, 4-byte page			
Crypto				TDES
Key Length				112-bit
Authentication key / password		32 bit password		3-pass mutual
Write lock		yes		
Originality check features	ECC signature programmable	ECC signature		
NFC compliance	NFC Forum Tag type 2 compliant			
Target applications	public transport & event ticketing*, loyalty programs, limited use tickets			
Input capacitance	17pF or 50pF			
Delivery Types				
Wafer 120µm / 17 pF	MF0UN0001DUD	MF0UL1101DUD	MF0UL2101DUD	MF0ICU2001DUD
Wafer 120 µm / High Cap	MF0UN0001DUF	MF0ULH1101DUD	MF0ULH2101DUD	MF0ICU2101DUD
Wafer 75 µm / 17pF	MF0UNH0001DUD	MF0UL1101DUF	MF0UL2101DUF	-
Wafer 75 µm / High Cap	MF0UNH0001DUF	MF0ULH1101DUF	MF0ULH2101DUF	-
MOA4 / 17pF	-	-	-	MF0MOU2001DA4
MOA4 / High Cap		-	-	MF0MOU2101DA4
MOA8 / 17 pF		-	MF0UL2101DA8	MF0MOU2001DA8

