

# JCB Approved Product List –MULTOS –

June 2008



The table below shows the products which obtained JCB Approval and whose J/Smart application is authorized by JCB.

\* The product details below are based on the information from each vendor via "Application Form for JCB IC Card Approval Test Program".

Please note that some approved products may not appear on this list. For further information including the contents in the "Remarks/Other Applications", please contact the vendors directly.

\* The latest list is available on the following URL: <http://www.jcb-global.com/english/solution/jsmart/products.html>

\* The Approval granted by JCB includes no warranties by JCB against any problem or risk arising in connection with the approved product. The Vendor shall be solely responsible for their products, regardless of JCB's Approval.

JCB Reference Number	Vendor	Product Name	OS Information		Chip Information					J/Smart Information						Remarks/ Other applications	
			OS Name MULTOS Version	Chip Manufacturer	Chip Name	ROM (K)	EEPROM (K)	Transmission Protocol	JCB IC Card Specification Version number	Function					Cirrus ATM Information		
										Offline Data Authentication			CVM				M/Chip Version
										SDA	DDA	CDA	Offline Plain Text PIN Verification	Offline Enciphered PIN Verification			
JM-003	HITACHI Ltd./ Dai Nippon Printing Co., Ltd./ Mondex International	4.032a	4.0	Renesas Technology Corp.	AE45C	96	32	T=1	1.0	✓	✓	-	✓	✓	-	J/Smart Applet in EEPROM	
JM-004	Keycorp Ltd.	I4D	4.0	Infineon Technologies AG	SLE66CX320P	64	32	T=1	1.0	✓	✓	-	✓	✓	-	J/Smart Applet in EEPROM	
JM-005	HITACHI Ltd./ Dai Nippon Printing Co., Ltd./ Mondex International	4.032b	4.0	Renesas Technology Corp.	AE45C	96	32	T=1	1.0	✓	✓	-	✓	✓	-	J/Smart Applet in EEPROM	
JM-007	Keycorp Ltd.	I4D	4.0	Infineon Technologies AG	SLE66CX160P	64	16	T=0	1.0	✓	✓	-	✓	✓	-	J/Smart Applet in EEPROM	
JM-008	Keycorp Ltd.	I4D	4.0	Infineon Technologies AG	SLE66CX320P	64	32	T=0	1.0	✓	-	-	✓	✓	-	J/Smart Applet in EEPROM	
JM-013	HITACHI Ltd./ Dai Nippon Printing Co., Ltd.	4.032Xb	4.0	Renesas Technology Corp.	AE45Xb	128	36	T=1	1.0	✓	✓	-	✓	✓	2.05 Select	J/Smart Applet in EEPROM	
JM-012	HITACHI Ltd./ Dai Nippon Printing Co., Ltd./ Mondex International	4.032a	4.0	Renesas Technology Corp.	AE45C	96	32	T=1	2.0	✓	✓	✓	✓	✓	-	J/Smart Applet in EEPROM	
JM-015	Dai Nippon Printing Co., Ltd.	4.032d	4.0	Renesas Technology Corp.	AE45C	96	32	T=1	2.0	✓	✓	✓	✓	✓	2.05 Select	J/Smart Applet in EEPROM	
JM-016	Dai Nippon Printing Co., Ltd.	4.032f	4.0	Renesas Technology Corp.	AE45C	96	32	T=1	2.0	✓	✓	✓	✓	✓	2.05 Select 4 Select	J/Smart Applet in EEPROM	

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			OS Name MULTOS Version	Chip Manufacturer	Chip Name	ROM (K)	EEPROM (K)	Transmission Protocol	JCB IC Card Specification Version number	Function					Cirrus ATM Information		
										Offline Data Authentication			CVM				M/Chip Version
										SDA	DDA	CDA	Offline Plain Text PIN Verification	Offline Enciphered PIN Verification			
JMC-003	Dai Nippon Printing Co., Ltd.	4.032e	4.0	Renesas Technology Corp.	AE45C	96	32	T=1	1.0	✓	✓	-	✓	✓	2.05 Select	JPA,ETC	
JMC-004	Dai Nippon Printing Co., Ltd.	4.032e	4.0	Renesas Technology Corp.	AE45C	96	32	T=1	2.0	✓	✓	✓	✓	✓	2.05 Select	JPA,ETC	
JMC-005	Dai Nippon Printing Co., Ltd.	4.032d	4.0	Renesas Technology Corp.	AE45C	96	32	T=0	1.0	✓	✓	-	✓	✓	2.05 Select		
JMC-006	Dai Nippon Printing Co., Ltd.	4.016a	4.0	Renesas Technology Corp.	AE45CH	96	16	T=1	2.0	✓	✓	✓	✓	✓	2.05 Select	JBA, JPA, ETC	
JMC-007	Dai Nippon Printing Co., Ltd.	4.016a	4.0	Renesas Technology Corp.	AE45CH	96	16	T=1	1.0	✓	✓	-	✓	✓	2.05 Select	JBA, JPA, ETC	
JMC-008	Dai Nippon Printing Co., Ltd.	4.036a	4.0	Renesas Technology Corp.	AE45C1	196	36	T=0	2.0	✓	✓	✓	✓	✓	2.05 Select 4 Select		
JMC-009	Dai Nippon Printing Co., Ltd.	4.036a	4.0	Renesas Technology Corp.	AE45C1	196	36	T=1	2.0	✓	✓	✓	✓	✓	2.05 Select 4 Select		
JMC-010	Dai Nippon Printing Co., Ltd.	4.218a	4.2	Renesas Technology Corp.	AE44C	128	18	T=0	2.0	✓	✓	✓	✓	✓	2.05 Select 4 Select		
JMC-011	Dai Nippon Printing Co., Ltd.	4.218a	4.2	Renesas Technology Corp.	AE44C	128	18	T=1	2.0	✓	✓	✓	✓	✓	2.05 Select 4 Select		