

# WBA-x1 Acceptor Listing. There is no up date anymore. Ask for up Grade Kit to use your Acceptor .

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**16.01.2014**

**not updated  
any more**

WBA-xx+xx-1Mbit [for use in models xx ]  
Product discontinued-please use  
up grade kits from 1Mbit to 4Mbit  
Contact Sales at Sales@jcm-germany.com

-xx (Model Series)  
[with Extension Operation]



Release	Country; Currency	Model	Extensions	ROM	Version	Interface	Check Sum	CRC	Direct	Guide Type/Width	Software recognition CODE	Banknotes Accepted	Memorandum
Mai 05	Argentina; Peso	WBA-20-21	-SS; -SH; -SU	1MB	V 151-30	003	D158h	5CB Dh	B	1 (67mm)	ARG	2(°97); 5(°98); 10(°98); 20(°00); 50(°99); 100(°99)	See PDF document for details
November 06	Australia; Dollar	WBA-10+11	-SS; -SH; -SU	1MB	V 200-30	003	92BDh	2375h	A; B; C; D	1 (67mm)	AUS	5(°9501); 10(°93); 20(°94); 50(°95); 100(°96)	See PDF document for details
August 98	Barbados; Dollar	WBA-20-21	-SS; -SH; -SU	1MB	V 125-12	003	6D2Eh	B094h	A; B	1 (67mm)	BRB	2 o+n; 5 o+n; 10; 20 o+n; 50; 100	See PDF document for details
Januar 04	Belarus; (new) Rubel	WBA-20-21	-SS; -SH; -SU	1MB	V 131-20	003	ABC5h	BC7Ah	A; B; C; D	3 (77mm)	BLR	1K(°00); 5K(°00); 10K(°01); 20K(°01); 50K(°00)	See PDF document for details
April 05	Botswana; Pula	WBA-20-21	-SS; -SH; -SU	1MB	V 132-20	003	6A70h	87B4h	A; B; C; D	4 (81mm)	BWA	10(°02); 20(°02); 50(°00); 100(°00'04)	See PDF document for details
Mai 05	Brazil; Real	WBA-20-21	-SS; -SH; -SU	1MB	V 140-30	003	F4F8h	25B3h	A; B; C; D	1 (67mm)	BRA	1(°94'9703); 5(°94'97); 10(°94'9700); 50(°94)	See PDF document for details
Juli 05	Brazil; Real	WBA-20-21	-SS; -SH; -SU	1MB	V 141-30	003	CABEh	CD6Dh	A; B; C; D	1 (67mm)	BRA1	1(°94'9703); 2(°01); 5(°94'97); 10(°94'9700)	See PDF document for details
Mai 05	Brazil; Real	WBA-20-21	-SS; -SH; -SU	1MB	V 140-30	003	A2B8h	9981h	A; B; C; D	1 (67mm)	BRA2	5(°94'97); 10(°94'9700); 20(°02); 50(°94)	See PDF document for details
Juli 05	Bulgaria; (new) Lev	WBA-20-21	-SS; -SH; -SU	1MB	V 133-30	003	DC3Dh	EAEFh	A; B; C; D	4 (81mm)	BGR	5(°99); 10(°99); 20(°99); 50(°99); 100(°03)	See PDF document for details
Juli 05	Canada; Dollar	WBA-20-21	-SS; -SH; -SU	1MB	V 179-30	003	D574h	F21Ch	A	2 (71mm)	CAN	5(°02); 10(°01'04); 20(°93'04); 50(°89'04); 100(°90'04)	See PDF document for details
Dezember 06	Chile; Peso	WBA-20-21	-SS; -SH; -SU	1MB	V 141-30	003	84C2h	91D0h	B	2 (71mm)	CHL	1K(°78); 2K(°97-°03'04); 5K(°81-°94); 10K(°89-°94); 20K(°98)	See PDF document for details
Mai 02	China; Yuan	WBA-20+21	-SS; -SH; -SU	1MB	V 132-17	003	120Eh	CD6Dh	A; B; C; D	3 (77mm)	CHN1	20(°99); 50(°80'99); 100(°80'99)	See PDF document for details
November 06	Colombia; Peso	WBA-20-21	-SS; -SH; -SU	1MB	V 200-30	003	1325h	659Fh	A; B	2 (71mm)	COL	5K(°xx); 10K(°95); 20K(°xx); 50K(°00)	See PDF document for details
Juli 05	Costa Rica; Colon	WBA-20-21	-SS; -SH; -SU	1MB	V 131-30	003	215Ah	C798h	A; B; C; D	1 (67mm)	CRI	1K(°86-°90'94'97'98'03); 2K(°97'03); 5K(°91'92'94'95'96); 10K(°97'02)	See PDF document for details
Mai 02	Cyprus; Pound	WBA-20-21	-SS; -SH; -SU	1MB	V 130-17	003	6F90h	83D6h	A; B; C; D	3 (77mm)	CYP	1; 5; 10	See PDF document for details
Juni 03	Czech Republic; Koruna	WBA-20-21	-SS; -SH; -SU	1MB	V 134-20	003	52AEh	4A4Ch	A; B	3 (77mm)	CZE	100(°93'97); 200(°93'98); 500(°93'95); 1,000(°93'96)	See PDF document for details
August 05	Denmark; Krone	WBA-20-21	-SS; -SH; -SU	1MB	V 140-20	003	9D39h	5A7Bh	A; B; C; D	3 (77mm)	DNK	50(°99'05); 100(°99'02); 200(°97'03); 500(°97'03); 1K(°98'04)	See PDF document for details
Februar 03	Estonia; Kroon	WBA-20-21	-SS; -SH; -SU	1MB	V 134-19	003	B1F3h	2717h	A; B; C; D	2 (71mm)	EST	25(°91'02); 50(°94); 100(°99); 500(°96'99)	See PDF document for details
März 03	European Union; Euro	WBA-20-21	-SS; -SH; -SU	1MB	V 212-20	003-UR	6FACh	B094h	B	4 (81mm)	EUR2	5; 10; 20; 50	See PDF document for details
November 05	European Union; Euro	WBA-20-21	-SS; -SH; -SU	1MB	V 228-30	003	A382h	5479h	A; B; C; D	4 (81mm)	EUR2	5(°02); 10(°02); 20(°02); 50(°02)	See PDF document for details
November 05	European Union; Euro	WBA-20-21	-SS; -SH; -SU	1MB	V 228-30	003e	A3A9h	1E35h	A; B; C; D	4 (81mm)	EUR2	5(°02); 10(°02); 20(°02); 50(°02)	See PDF document for details
November 05	European Union; Euro	WBA-20-21	-SS; -SH; -SU	1MB	V 228-30	003 (Bally)	AFDCh	C99Ah	A; B; C; D	4 (91mm)	EUR2 B	5(°02); 10(°02); 20(°02); 50(°02)	See PDF document for details
Oktober 05	Georgia; Lari	WBA-20+21	-SS; -SH; -SU	1MB	V 131-30	003	5F81h	73FBh	A; B; C; D	2 (71mm)	GEO	5(°02); 10(°02); 20(°02); 50(°04); 100(°04)	See PDF document for details
April 03	Guatemala; Quetzal	WBA-20-21	-SS; -SH; -SU	1MB	V 131-20	003	388Dh	67AEh	A; B; C; D	2 (71mm)	GTM	5(°95'98); 10(°98); 20(°99); 50(°95'98); 100(°95'98'01)	See PDF document for details
März 04	Hungary; Forint	WBA-20-21	-SS; -SH; -SU	1MB	V 135-20	003	C16Ch	A036h	A; B; C; D	2 (71mm)	HUN	200(°98'01'03); 500(°98'01'03); 1K(°98'00'02); 2K(°98'02); 5K(°99)	See PDF document for details
Dezember 04	Hungary; Forint	WBA-20-21	-SS; -SH; -SU	1MB	V 136-20	003	B032h	93E1h	A; B; C; D	2 (71mm)	HUN2	1K(°98'00'02); 2K(°98'02); 5K(°99); 10K(°97); 20K(°99)	See PDF document for details
August 06	Iceland; Krona	WBA-20-21	-SS; -SH; -SU	1MB	V 200-30	003	320Ch	5CB Dh	A; B	2 (71mm)	ISL	500(°01); 1K(°01); 2K(°86); 5K(°61'01)	See PDF document for details
April 01	Japan; Yen	WBA-10S+11S	-SS; -SH; -SU	1MB	V 131-15	003	3DEBh	BE96h	A; B; C; D	3 (77mm)	JPN	1,000; 2,000; 5,000; 10,000	See PDF document for details
September 05	Kazakhstan; Tenge	WBA-20+21	-SS; -SH; -SU	1MB	V 133-30	003	5C3Fh	6B08h	A; B; C; D	3 (77mm)	KAZ1	200(°99); 500(°94'99); 1K(°00); 2K(°00); 5K(°98'01); 10K(°03)	See PDF document for details
Juli 05	Korea Republic; Won	WBA-20-21	-SS; -SH; -SU	1MB	V 144-30	003	7047h	A665h	A; B; C; D	3 (77mm)	KOR	1K(°83); 5K(°83); 10K(°94'00)	See PDF document for details
August 05	Korea Republic; Won	WBA-20-21	-SS; -SH; -SU	1MB	V 144-30	003 (Bally)	6F48h	4E2Eh	A; B; C; D	3 (77mm)	KOR	1K(°83); 5K(°83); 10K(°94'00)	See PDF document for details
Juni 05	Latvia; Lat	WBA-20-21	-SS; -SH; -SU	1MB	V 135-20	003	5D6Ch	A0A3h	A; B; C; D	1 (67mm)	LVA	5(°92'96'01); 10(°92'00); 20(°92'04); 50(°92); 100(°92)	See PDF document for details
Juli 05	Lithuania; Litas	WBA-20-21	-SS; -SH; -SU	1MB	V 134-20	003	A614h	0000h	A; B; C; D	2 (71mm)	LTU	10(°01); 20(°01); 50(°03); 100(°00); 200(°97)	See PDF document for details
Januar 06	Malaysia; Ringgit	WBA-20-21	-SS; -SH; -SU	1MB	V 143-30	003	0586h	C15Eh	A; B; C; D	2 (71mm)	MYS1	1(°00); 2(°96); 5(°99); 10(°98'03); 50(°98); 100(°98)	See PDF document for details
Januar 06	Malaysia; Ringgit	WBA-20-21	-SS; -SH; -SU	1MB	V 143-30	003	E8E6h	650Ah	A; B; C; D	2 (71mm)	MYS3	5(°99'04); 10(°98'03); 50(°98); 100(°98)	See PDF document for details
Oktober 04	Malta; Lira	WBA-20+21	-SS; -SH; -SU	1MB	V 134-20	003	593Dh	BE03h	A; B; C; D	3 (77mm)	MLT	2(°94); 5(°94); 10(°94); 20(°94)	See PDF document for details
Februar 05	Mauritius; Rupee	WBA-20-21	-SS; -SH; -SU	1MB	V 133-25	003	93CAh	D7AFh	A	4 (81mm)	MUS	50(°99'01); 100(°99'01); 200(°99'01); 500(°99); 1K(°99); 2K(°99)	See PDF document for details
September 05	Mexico; (new) Peso	WBA-20-21	-SS; -SH; -SU	1MB	V 147-30	003	72D5h	0462h	B	1 (67mm)	MEX	20(°96'02); 50(°96); 100(°96'01); 200(°96'01); 500(°96'01); 1K(°04)	See PDF document for details
Februar 05	Morocco; Dirham	WBA-20+21	-SS; -SH; -SU	1MB	V 131-20	003	5936h	F4DAh	A; B; C; D	4 (81mm)	MAR	50(°87); 100(°87'02); 200(°87'02)	See PDF document for details
August 03	Namibia; Dollar	WBA-20-21	-SS; -SH; -SU	1MB	V 133-20	003	C864h	A454h	A; B; C; D	2 (71mm)	NAM	10; 20; 50; 100; 200	See PDF document for details
März 03	Netherlands Antilles; Gulden	WBA-20-21	-SS; -SH; -SU	1MB	V 130-20	003	AB35h	659Fh	A; B; C; D	1 (67mm)	ANT	10(°98); 25(°98); 50(°98); 100(°98)	See PDF document for details
November 03	New Zealand; Dollar	WBA-20-21	-SS; -SH; -SU	1MB	V 141-20	003	0641h	D169h	A; B; C; D	3 (77mm)	NZL1	5; 10; 20 (all polymer)	See PDF document for details

Release	Country; Currency	Model	Extensions	ROM	Version	Interface	Check Sum	CRC	Direct	Guide Type/Width	Software recognition CODE	Banknotes Accepted	Memorandum
Januar 04	New Zealand; Dollar	WBA-20-21	-SS; -SH; -SU	1MB	V 141-20	003 (Bally)	0673h	3922h	A; B; C; D	3 (77mm)	NZL1	5; 10; 20 (all polymer)	See PDF document for details
Februar 03	Norway; Krone	WBA-20-21	-SS; -SH; -SU	1MB	V 137-19	003	F3C9h	3922h	A; B; C; D	4 (81mm)	NOR2	50(96); 100(9502); 200(02); 500(99); 1,000(02)	See PDF document for details
Dezember 06	Peru; Nuevo Sol	WBA-20-21	-SS; -SH; -SU	1MB	V 201-30	003	90CEh	E2BEh	A	1 (67mm)	PER	10(01); 20(94~9798~01); 50(01); 100(0104); 200(95)	See PDF document for details
Dezember 06	Peru; Nuevo Sol	WBA-20-21	-SS; -SH; -SU	1MB	V 201-30	003	9152h	6359h	A	1 (67mm)	PER1	10(01); 20(94~9798~01); 50(01); 100(0104); 200(95)	See PDF document for details
September 02	Philippines; Piso	WBA-20-21	-SS; -SH; -SU	1MB	V 134-19	003	8897h	AEA1h	A; B; C; D	1 (67mm)	PHL	50; 100; 500; 1,000	See PDF document for details
November 99	Poland; New Zloty	WBA-20-21	-SS; -SH; -SU	1MB	V 134-13	003	CA7Dh	04F7h	A; B; C; D	3 (77mm)	POL1	10; 20; 50; 100; 200	See PDF document for details
Februar 01	Poland; New Zloty	WBA-20-21	-SS; -SH; -SU	1MB	V 136-15	003 (Bally)	F8EC h		A; B; C; D	3 (77mm)	POL1-B	10; 20; 50; 100; 200	See PDF document for details
August 05	Romania; Leu	WBA-20-21	-SS; -SH; -SU	1MB	V 139-20	003	0A5Eh	F21Ch	A; B; C; D	4 (81mm)	ROM	OLD-10K(00); 50K(01); 100K(01); 500K(00); 1M(03), NEW-1(05); 5(05); 10(05); 50(05); 100(05)	See PDF document for details
März 05	Russia; Ruble	WBA-20-21	-SS; -SH; -SU	1MB	V 140-20	003	8EDCh	3922h	A; B; C; D	2 (71mm)	RUS	10(04); 50(04); 100(04); 500(04); 1K(04)	See PDF document for details
Dezember 04	Russia; Ruble	WBA-20-21	-SS; -SH; -SU	1MB	V 139-20	003	DD30h	A8F2h	A; B; C; D	2 (71mm)	RUS2	10(970104); 50(970104); 100(970104)	See PDF document for details
Dezember 04	Russia; Ruble	WBA-20-21	-SS; -SH; -SU	1MB	V 139-20	003	8ECBh	A665h	A; B; C; D	2 (71mm)	RUS3	100(970104); 500(970104); 1K(970104)	See PDF document for details
März 05	Russia; Ruble	WBA-20-21	-SS; -SH; -SU	1MB	V 140-20	003 (Bally)	8D79h	9BB0h	A; B; C; D	2 (71mm)	RUS-B	10(97); 50(97); 100(97); 500(97); 1K(97)	See PDF document for details
September 04	Singapore; Dollar	WBA-20-21	-SS; -SH; -SU	1MB	V 140-20	003	1BD Dh	C798h	A; B; C; D	4 (81mm)	SGP	10(9904); 50(92blue+black99); 100 (99)	See PDF document for details
September 06	Slovakia; Koruna	WBA-20-21	-SS; -SH; -SU	1MB	V 135-30	003	58B0h	73FBh	A; B; C; D	4 (81mm)	SVK	50(93~); 100(93~); 200(95~99~); 500(93~00~); 1K(93~9799~)	See PDF document for details
Juni 98	South Africa; Rand	WBA-20-21	-SS; -SH; -SU	1MB	V 123-12	003	1338h	522Ah	A	2 (71mm)	ZAF	10; 20; 50; 100; 200	See PDF document for details
Mai 05	Surinam; Dollar	WBA-20-21	-SS; -SH; -SU	1MB	V 202-20	003	BA33h	790Eh	A; B; C; D	2 (71mm)	SUR	5(04); 10(04); 20(04); 50(04); 100(04)	See PDF document for details
März 05	Swaziland; Lilangeni	WBA-20+21	-SS; -SH; -SU	1MB	V 130-25	003	F959h	AA56h	A; B; C; D	2 (71mm)	SWZ	10(01); 20(01); 50(9801); 100(9601)	See PDF document for details
Dezember 05	Sweden; Krona	WBA-20+21	-SS; -SH; -SU	1MB	V 144-30	003	AAA5h	A454h	A; B; C; D	5 (82mm)	SWE1	20(97); 50(96); 100(01)	See PDF document for details
Januar 02	Switzerland; Franc	WBA-20-21	-SS; -SH; -SU	1MB	V 137-15	003	8607h	75A8h	A; B	3 (77mm)	CHE	10 n; 20 n; 50 n; 100 o+n; 200 n	See PDF document for details
Dezember 02	Switzerland; Franc & European Union; Euro	WBA-20+21	-SS; -SH; -SU	1MB	V 211-19	003e	BACEh	0095	B	4 (81mm)	CHE-EUR2	CHF-10 n; 20 n; 50 n; 100 o+n; 200 n EUR-5; 10; 20; 50	See PDF document for details
Dezember 05	Taiwan; Yuan	WBA-20+21	-SS; -SH; -SU	1MB	V 121-10	003	37F1h	CB5Ah	A; B; C; D	2 (71mm)	TWN	100	See PDF document for details
April 03	Tanzania; Shilling	WBA-20+21	-SS; -SH; -SU	1MB	V 131A-20	003	2E68h	E84Bh	A; B; C; D	3 (77mm)	TZA	5,000(9703); 10,000(9703)	See PDF document for details
Juli 02	Thailand; Baht	WBA-20-21	-SS; -SH; -SU	1MB	V 122-19	003	7560h	FC1Eh	A; B; C; D	3 (77mm)	THA	100(94); 500(96); 1,000(99)	See PDF document for details
November 03	UK; Sterling Pound	WBA-20+21	-SS; -SH; -SU	1MB	V 145-20	003	DE85h	CFC9h	A; B; C; D	4 (81mm)	GBR	5(02); 10(00); 20(99)	See PDF document for details
November 03	UK; Sterling Pound	WBA-20+21	-SS; -SH; -SU	1MB	V 145-20B	003 (Bally)	DEE1h	C3FAh	A; B; C; D	4 (81mm)	GBR	5(02), 10(00), 20(99)	See PDF document for details
November 03	UK; Sterling Pound & Gibraltar; Pound	WBA-20+21	-SS; -SH; -SU	1MB	V 142-20	003	03DEh	69ACh	A	4 (81mm)	GBR-GBI	GBP-5(02); 10(00); 20(99) + GIP-5(9500); 10(9502); 20(95)	See PDF document for details
Februar 06	UK; Sterling Pound & Isle of Man; Sterling Pound	WBA-20+21	-SS; -SH; -SU	1MB	V 141-30	003	D7DDh	B652h	A	4 (81mm)	GBR-MAN	GBR - 5(02); 10(00); 20(99) + MAN - 5(91); 10(91); 20(91)	See PDF document for details
März 05	Ukraine; Hryvnia	WBA-20-21	-SS; -SH; -SU	1MB	V 142-20	003	39C2h	6808h	A; B; C; D	3 (77mm)	UKR2	10(04); 20(03); 50(04); 100(96); 200(01)	See PDF document for details
September 03	United Arab Emirates; Dirham	WBA-20-21	-SS; -SH; -SU	1MB	V 132-20	003	F54Fh	584Ah	A; B; C; D	2 (71mm)	ARE	100(93959803); 200(89); 500(93969800)	See PDF document for details
Februar 06	United States of America; Dollar	WBA-10+11	-SS; -SH; -SU	1MB	V 360-30	003	F452h	8FE5h	A	1 (67mm)	USA	1(xx); 5(xx939903); 10(xx90~959904); 20(xx90~9596~0104); 50(xx90~939604); 100(xx90~9396)	See PDF document for details
Mai 05	Uruguay; Peso Uruguayo	WBA-20-21	-SS; -SH; -SU	1MB	V 136-30	003	DB3Fh	7B3Fh	A; B; C; D	3 (77mm)	URY	20(9400); 50(9400); 100(9400); 200(9500); 500(9499); 1K(9504); 2K(03)	See PDF document for details
Februar 04	Venezuela; Bolivar	WBA-20-21	-SS; -SH; -SU	1MB	V 145-20	003	B753h	9981h	A; B; C; D	2 (71mm)	VEN1	5K(9800); 10K(980001); 20K(98); 50K(98)	See PDF document for details
Januar 04	Yugoslavia (Serbia & Montenegro); Dinar	WBA-20+21	-SS; -SH; -SU	1MB	V 131-20	003	0C0Ah	DDCFh	A; B; C; D	3 (77mm)	YUG	100(03); 200(01); 1K(03); 5K(03)	See PDF document for details