

# E-book Reader Matrix

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Much of the renewed enthusiasm for e-books comes from a new generation of e-book reader devices because they use the [E Ink technology](#) which has been eagerly awaited, and the feature sets are much richer than devices could offer in the past. This new [display](#) technology has the distinct advantage of only using power for page turns, not to maintain a page display. But most importantly, it provides a crisp, clear image on a larger display screen that rivals print seen in paper books.

If you prefer Devices that use an [LCD display](#) instead of [E-Ink](#) See: [LCD E-Book Reader Matrix](#)

If you were really looking for a more generalized solution check [Mobile devices](#).

## [\[edit\]](#) Devices

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The main manufactures of eBook dedicated device hardware are: [Sony](#), [Jinke](#), [Netronix](#), [Amazon](#) and [iRex](#). However, some devices are branded with different names. These devices may be exactly the same as the 5 mentioned above or may have different firmware and therefore some significantly different specifications in that area.

[Sony Portable Reader](#) is the generic name for several Sony devices. Jinke Electronics creates the [Hanlin eBook V3](#) and several other models. These products are branded under several different names including IBook, BeBook and Astak EZ Reader. The [Amazon Kindle](#) is only sold by Amazon. The Netronix brand is generally not seen in an end user product. Instead you will see devices such as the [STAReBOOK](#) and the [Bookeen Cybook Gen3](#) that have the same basic hardware, the [Netronix EB-600](#), but different firmware. Other Netronix devices include the [NUUT](#) and [Soribook](#).

The "high-end" devices are currently supported by the [iRex Digital Reader](#) and [iRex iLiad](#). Both Jinke Electronics and Netronix have pre-announced several new models including the [eBook V9](#) with 9.7" display and [EB-900](#).

There are also some new players: The [Polymer Vision](#) RADIUS is [WinCE](#)-based, and it is cell phone sized with a rollup QVGA screen. The [Plastic Logic](#) devices will give iRex some competition.

There is also some technical information and another matrix comparing reader devices by their eBook Reading program capabilities here:

[E-book Supported Format Matrix](#)

[\[edit\]](#) Matrix (E Ink and TFT devices )

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Brandname	HanLin eBook (BeBook)	Sony Portable Reader		iRex		Amazon Kindle	STAReBOOK	Bookeen	Polymer Vision	Astak Mentor
Model	V3	PRS-505	PRS-700	iLiad	Digital Reader	D00111	STK-101	Cybook Gen3	Readius	EB-900
Manufacturer	Jinke Electronics	Sony		iRex Technologies		Hon Hai Precision Industries / Lab126	Netronix	Netronix	Polymer Vision	Netronix
Picture										
Dimensions	184 x 120.5 x 9.9mm (7.24" x 4.74" x .39")	175 x 122 x 8mm (6.9" x 4.8" x .3")	??? x ??? x ??mm (?.?" x ?.?" x .?)	216 x 155 x 16mm (8.5" x 6.1" x .6")	268 x 217 x 12 mm (10.6" x 8.5" x .5")	190 x 134 x 18mm (7.5" x 4.9" x .7")	188 x 118 x 8.5mm (7.4" x 4.6" x .3")	188 x 118 x 8.5 mm (7.4" x 4.7" x .3")	57 x 21 x 15 mm (closed) 160 x 115 x 21 mm (open)	255 x 195 x 14mm (10.0" x 7.7" x .55")
Screen Technology	EInk Vizplex	EInk Vizplex		EInk	EInk Vizplex	EInk Vizplex	EInk Vizplex	EInk Vizplex	Rollable organic TFT backplane with Vizplex frontplane	EInk Vizplex FlexiScreen

Primary Display	(90x120mm) 6" 600x800 pixels, 4 gray levels, 167 ppi	(90x120mm) 6" 600x800 pixels, 8 gray levels, 167 ppi		(122x163mm) 8.1" 768x1024 pixels, 16 gray levels, 158 ppi	(163x203mm) 10.2" 1024x1280 pixels, 16 gray levels, 160 ppi	(90x120mm) 6" 600x800 pixels, 4 gray levels, 166.7 ppi	(90x120mm) 6" 600x800 pixels, 4 gray levels, 167 ppi	(90x120mm) 6" 600x800 pixels, 4 gray levels, 167 ppi	5" 240x320, 16 gray levels	(140x203mm) 9.7" 825x1200, 4 gray levels, 150 ppi
Secondary Display	n.a.	n.a.	front light	n.a.	n.a.	vertical cursor bar	n.a.	n.a.	n.a.	n.a.
Touch Screen	n.a.	n.a.	yes (finger or stylus)	yes (WaCom Pen)	yes (WaCom Pen, DR1000S & DR1000SW editions)	keyboard	n.a.	n.a.	n.a.	yes (finger or stylus)
Full-screen Refresh Rate	0.9s	1.0s (0.5s in 2 gray scales mode)	?	1.3s	0.85s	?	0.9s	0.9s	?	?
Power	Li-ion 950mAh (Nokia Phone battery)	Li-ion	Li-ion	Li-ion 1100mAh (2-cells); 2nd Edition ~20% larger	Li-ion 1300mAh	Li-ion 1530mAh	Li-ion 800mAh	Li-Polymer 1000mAh	?	Li-Ion 2100 mAh
Battery Life	9'000 pages	7'500 pages	7'500 pages	claimed 15hrs with larger battery	claimed 24hrs(measured 5.5 hrs)	with EVDO: "one day", without: "a week or more"	8'000-10'000 pages	8'000 pages	"30 hours"	5'000 pages
Weight	200g (7.05oz)	250g (9oz) without soft	283g (10oz) without soft	388g (13.7oz)	570g (20.1oz)	289g (10.2oz)	176g (6.2oz)	174g (6.13oz) lightest e-	115g (4.1oz)	?

		cover	cover					ink reader		
OS	Linux	Linux	Linux	Linux	Linux 2.6.24	Linux 2.6.10	Linux	Linux	WinCE	WinCE(?)
Boot Time	16s	n.a.	n.a.	44s	50s	?	15s	20s	?	?
SDK	yes	no	no	yes; many Linux apps have been ported	yes	?	n.a.	?	?	?
CPU	Samsung Arm 9 200MHz	i.MXL MC9328MXLVP 20 (ARM920T core, 200MHz)	?	Intel X-Scale 400MHz	Freescale i.MX31L	Intel PXA250 400 MHz	Samsung S3C2410A (ARM ARM920T core, 250MHz)	Samsung S3C2410 (ARM920T 200MHz)	ARM11 400MHz	Samsung S3C2443 400MHz
Memory	512MB, Internal 2M NOR Flash, 512MB SD Card included	64MB RAM, 2MB(NOR) + 256MB(NAND) Flash (~210MB user accessible)	??MB RAM, ?MB(NOR) + 512MB(NAND) Flash (~384MB user accessible)	64MB Ram + 128MB free Flash	128MB Ram + 1GB SD	256MB Flash (180MB user accessible)	64MB Ram	16MB Ram, 8MB Rom + 512MB Flash	128MB Ram + 256MB Internal	64MB Ram + 512MB NAND Flash
Expansion Slots	SD/MMC	MMC/SD/SDHC, Memory Stick Pro Duo	MMC/SD/SDHC, Memory Stick Pro Duo	MMC, CF Type II, USB Memory	SD/SDHC	SD/SDHC	SD/MMC	SD	High Capacity Micro SD	SD
Other Interfaces	USB 1.1, headphone	USB 2.0, headphone	USB 2.0, headphone	USB 1.1, headphone, WiFi 802.11b (NOT for Book Edition), 10/100 LAN	USB 2.0 (charging), (1000SW only) WiFi 802.11b/g and	USB 2.0, headphone, EVDO/CDMA	USB 2.0, headphone, mono speaker	USB 2.0 (charging), 2.5mm stereo	USB 2.0 (charging), Bluetooth 2.0 EDR, GSM/GPRS / EDGE tri-	2 x USB 2.0 (one charging), headphone, Bluetooth, WiFi

					Bluetooth			band	802.11g, SD3G	
Supported Formats	PDF, TXT, RTF, EPUB, LIT, PPT, WOLF, DOC, CHM, FB2, PRC/MOBI, HTML, DJVU, MP3, TIFF, JPG, GIF, BMP, PNG, RAR, ZIP	BBeB (LRF/LRX), PDF, EPUB, TXT, RTF, JPG, BMP, GIF, PNG, MP3, AAC		PDF, HTML, TXT, JPG, BMP, PNG, PRC/MOBI, DJVU (via FBReader: fb2, CHM, Plucker, zTxt, TCR, RTF, OEB, EPUB)	PDF, HTML, TXT, JPG, BMP, PNG, PRC/MOBI	AZW, Topaz (.tpz/.azw1), PRC/MOBI (non DRM), TXT, MP3, AA	STK, MP3	OEB-XHTML, TXT, HTML, PDF (non DRM), PRC/MOBI, JPG, GIF, PNG, MP3	TXT, HTML, PDF	eReader, PDF, HTML/CHM, TXT, RTF, JPG, GIF, PNG, BMP, MP3, AAC
Supported DRM Formats	Wolf, MobiPocket	Marlin DRM (BBeB), Adobe ADEPT (EPUB/PDF)		MobiPocket	MobiPocket	AZW (Kindle only, USA only)	.stk?	MobiPocket	?	eReader and Adobe(?)
Search functionality / Dictionary lookup	no	no	search using touchscreen	using touchscreen	using touchscreen	using keyboard	?	Dictionary lookup (using menus)	?	?
Note taking / highlighting / underlining	no	no	using touchscreen	using touchscreen	using touchscreen	using keyboard	?	bookmarks menu	?	?
Software	WOLF Maker, WOLF Printer	eBook Library, Adobe Digital Editions		iLiad Companion Software & Mobipocket Java Reader; Linux: FBReader,	Paperless iRex Printer & Mobipocket Java Reader	?	eREAD Editor	Bookeen® Multi-format eBook reader	?	?

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Services	iStation, ReadMan	Sony CONNECT		iRex Technologies Delivery Service (IDS)		Amazon Kindle Whispernet. E-mail conversion of DOC, HTML, JPEG, GIF, PNG, BMP and PDF	Isoshu		?	?
Content Partners	MobiPocket	Random House, Simon & Schuster, HarperCollins		De Tijd, IFRA, Les Echos, NRC Handelsblad, MobiPocket		Amazon	Isoshu	MobiPocket, Ubibooks, Cluster21	?	FictionWise
Price	US\$299	US\$299 / £199	US\$399	US\$699/€599 (2nd edition); US\$599/€499/£399 (Book Edition)	US\$649 (DR1000); US\$749 (DR1000S); US\$849 (DR1000WS)	US\$359.00	US\$420	US\$350 / 280€ / £180	?	US\$588(?)
Release Date	Q3 2007	2 October, 2007	14 October 2008	Q3 2006; 2nd Edition Q3 2007; Book Edition 7 May 2008	DR1000 mid-October 2008; DR1000S Oct 1st, 2008; DR1000WS Late 2008	Ordering began 11/19/07	11/2006	Ordering began 28 Oct, 2007	?	May, 2009
Misc Info	Company has been selling e-book devices since 2000 (V2 and V8	Company has been selling e-book devices since 2003 (PRS-500 not shown). Originally only available in the US, now in Canada and the UK (PRS-505 only).		Company was established in 2001 as a Royal Philips Electronics spin-off; 2nd Edition iLiad beefs up	Company was established in 2001 as a Royal Philips Electronics spin-off; base DR1000	Amazon pays for the wireless connectivity for Kindle so there are no monthly	eREAD is a new Taiwanese company (also available in: China and			

	<p>not shown); V9 will have 9.7" screen. Sold under other names worldwide: IBook V3, DigiBook Reader V3, Apolo-Hanlin V3, Walkbook, Papyre 6.1, BEBOOK, Astak EZ Reader.</p>		<p>the case frame and upgrades with larger battery; Book Edition is the same as 2nd Edition without WiFi and lower priced</p>	<p>without touchscreen, DR1000S adds touchscreen; DR1000WS adds WiFi and Bluetooth. Annotations only exportable to Windows (and perhaps only for PDFs).</p>	<p>wireless bills, data plans, or service commitments for customers. Currently USA only. Annotations stored in plain text files.</p>	<p>New Zealand). Similar to Explay TXT.BOOK, Ganaxa GeR2, Orsio b721.</p>	
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