

**EPSON**  
EXCEED YOUR VISION



**JOIN THE  
REVOLUTION**  
PRINT EVERYTHING IN FULL **COLOUR**  
FOR LESS.



## **EPSON B-510DN / B-310N**

A revolution in colour printing

- Incredible savings with Best-in-Class cost per page
- Amazing Media Flexibility and Low Energy Use
- Robust Reliability for seamless operation
- Dynamic printing performance for maximum efficiency



# HIGH PERFORMANCE AND FLEXIBLE BUSINESS PRINTING:

Combine renowned Epson colour quality and crisp sharp text at lower cost per page than a laser printer<sup>o1</sup>. With fast print speeds up to 37 ppm and extensive media flexibility up to 256 g/m<sup>2</sup>, you will maximise your productivity. Minimal power consumption of just 30 watts and with high yield cartridges the Epson Business Printer is ideal for offices and businesses that require high quality, high speed printing with low operating costs on a wide range of paper.

## High Productivity

- High yield supplies<sup>\*4</sup> up to 8,000 pages black and 7,000 pages colour (B-510DN), up to 3,000 pages black and 3,500 pages colour (B-310N).
- Extensive paper handling with up to 650 pages standard capacity, 2 paper sources and automatic duplexing (optional on B-310N).
- Share the printer across workgroups with high-speed networking.

## Excellent Reliability

- Reduce downtime with the improved paper feeding mechanism.
- Reliable monthly duty cycle<sup>\*2</sup> of up to 20,000 pages (Epson B-510DN) and 10,000 pages (Epson B-310N) thanks to the Epson Micro Piezo™ print head which lasts the life of the printer.
- The Auto Nozzle Check System keeps the print head clean to maximise print quality at any time<sup>o3</sup>.

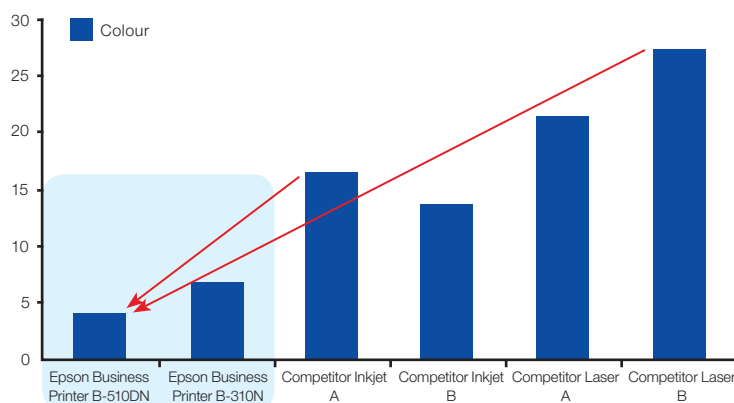
## Extensive Media Flexibility

- Print on a very wide range of media (up to 256 g/m<sup>2</sup> in thickness) and various paper sizes: letterheads, plain and recycled envelopes, ideal for fast crisp text or for high quality full colour marketing materials.
- Quality is assured in colour, black and white and text printing even on plain paper with pigment-based Epson DURABrite™ Ultra inks.
- Prints dry very quickly and are durable, water and smudge resistant thanks to the ink's special resin coating.

## Extremely Low Cost Per Page

- With the Epson B-510DN and B-310DN, you can reduce the cost of colour printing by at least 50% or more than a laser printer<sup>o1</sup>, making it the ideal choice for low-cost, high-volume printing.
- With costs as low as 4.2 cents per colour page<sup>o1</sup>, you can expand your business printing capabilities, thanks to high yield ink tanks.

Costs (Cents in AUD)



Cost per page calculation: RRP of the cartridge inc. gst. ÷ Cartridge Yield





## Assured Durability with Epson DURABrite™ Ultra Ink

With its smudge, water-resistant, quick drying and excellent ink adhesion features, Epson DURABrite™ Ultra Ink produces long lasting photos and documents of amazing quality. Get outstanding clarity and colour that impresses for all your business needs.

### Fast

- Print up to 37 ppm, in black or colour in draft mode.
- Laser quality print speeds<sup>\*1</sup> of 19 ppm in black and 18 ppm colour – faster than most industry leading laser printers<sup>o3</sup>
- Ready to print when you are with no warm-up from standby mode and fast 3 seconds first page out time.

### Network and Emulations Support

Share the versatility of your Epson business printer in professional environments including SAP, Citrix and Linux with 4 PCL and 10 ESC/P2 emulations. Work quickly and reliably with sophisticated controller technology for efficient data management between PC and printer. Control with remote monitoring and administration, with easy maintenance.

### Low Environmental Impact

- Micro Piezo technology allows you to print with very low energy consumption, and the print heads last for the life of the printer. Therefore you will be able to reduce your impact on the environment and your electricity bill.
- Up to 88% lower power consumption and about 68% less Carbon-di-oxide emission compared to a Laser printer<sup>o2</sup>.
- Moreover the high yield ink tanks mean less changes of supplies, therefore waste reduction.



**SPECIFICATIONS**

**B-510DN**

**B-310N**

**PRINT FEATURES**

Printing Technology	On-demand ink jet (piezoelectric)	
Print Head	EPSON MICRO PIEZO™	
Nozzle Configuration	360 nozzles (Black), 360 nozzles (Cyan, Magenta, Yellow)	
Minimum Ink Droplet Volume	3 picolitres	
Ink	EPSON DuraBrite Ultra™ Ink	
Resolution	Up to 5760 x 1440 dpi	
Maximum Print Speed <sup>1</sup>	37ppm black and colour	
Laser Quality Print Speed <sup>1</sup>	19ppm black and 18ppm colour	
Maximum Monthly Volume <sup>2</sup>	Up to 20,000 pages	Up to 10,000 pages
Recommended Monthly Volume <sup>2</sup>	4,000 pages	2,000 pages

**CONTROLLER SPECIFICATIONS**

Memory	32MB non upgradeable	
Printer Control Language Emulations	ESC / P-Raster, ESC / P2 & PCL3	
Resident Typefaces	Compatible with all TrueType® fonts and supported Windows™ and Apple Macintosh™ Operating Systems	
	4 PCL, 10 ESC / P2	

**INTERFACES AND CONNECTIVITY**

Interfaces	*High Speed USB 2.0, 100Base-TX / 10Base-T Ethernet interface*	
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**MEDIA HANDLING**

Standard Paper Input	650 sheets; plain paper (150 Rear ASF + 500 Front Paper Cassette)	
Paper Size	A4, A5, A6, B5, LT, HLT, LGL, GLG, EXE, C6, DL, #10, custom; 50.8 - 215.9mm x 127 - 1117.6mm	
Paper Weight / Thickness	64g ~ 90 g/m <sup>2</sup> (Plain Paper), 91g ~ 256 g/m <sup>2</sup> (Thick Plain bond Paper)	
Automatic Duplex Unit	Standard	Optional
Epson Media Supported	*PlainPaper, Premium Inkjet Plain Paper (A4), Bright White Inkjet Paper (A4), Matte Paper Heavy-weight (A4), Double-sided Matte Paper (A4), Photo Quality Inkjet Paper (A4), Photo Quality Self Adhesive Sheet (A4), Professional Flyer Paper (A4), PhotoPaper (A4, 4x6, 5x7)*	
Paper Output Standard / Maximum	A4 Plain paper: 170 Sheet (face up)	

**POWER REQUIREMENTS**

Rated Voltage / Frequency / Current	Rated power supply Voltage: AC 220V - 240V, Input Voltage range: AC198 - 264V, Rated current: 0.4A,	
Maximum rated current: 0.6A, Rated frequency:	50 - 60Hz, Input frequency range: 49.5 - 50.5Hz	
Power Consumption 220 - 240V Printing:	30W, Ready: 7.0W, Sleepmode: 3.5W, Poweroff: 0.4W	

**SYSTEM REQUIREMENT & OS SUPPORT**

System Requirement	Win2000, XP: Processor: Pentium III 500MHz RAM: 256 MB, Hard Disk: 500MB, WinXPx64,Vista, 7, server 2003, Mac OS X 10.3.9 or later: Refer to OS recommended requirements Interface: USB2.0, IEEE802.3(100 Base-TX / 10BASE-T)	
Windows Support	Microsoft Windows 2000 / Microsoft Windows XP / XP x 64 Edition Microsoft Windows Server 2003 / Server 2003 x 64 Edition / Microsoft Windows Server 2008 / Server 2008 x 64 Edition Microsoft Windows Vista / Vista x 64 Edition / Microsoft Windows 7 / 7 x 64 Edition OS 10.3.9 or later	
Mac Support	OS 10.3.9 or later	

**ADDITIONAL SOFTWARES**

Drivers	Printer Driver, Epson Status Monitor 3, Reference Guide, Paper Jam Guide	
Software	Web-To-Page, EpsonNet-Print, EpsonNetConfig (Win) (Web), EpsonNetEasyInstall, AddNet *Drivers if available are downloadable from Tech Epson ( <a href="http://tech.epson.com.au">http://tech.epson.com.au</a> )	

**WARRANTY**

Standard - 12 months return to base+  
Additional 12 months warranty free on product registration  
Please see [www.epson.com.au/warranty](http://www.epson.com.au/warranty) for full terms

**DIMENSIONS AND WEIGHT**

(W x D x H mm, Kg) <sup>13</sup>	B-510DN: 480 x 489.0 x 312 - 10.7 Kg	B-310N: 480 x 420 x 312 - 9.95 Kg
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**SUPPLIES**

Extra-High Capacity Ink Cartridge Black	8000 pages <sup>4</sup>	N/A
High Capacity Ink Cartridge Black	4000 pages <sup>4</sup>	N/A
High Capacity Ink Cartridge CMY	7000 pages <sup>4</sup>	N/A
Std Capacity Ink Cartridge Black	3000 pages <sup>4</sup>	
Std Capacity Ink Cartridge CMY	3500 pages <sup>4</sup>	

**ENVIRONMENTAL CONDITIONS**

Temperature	Operation: 10 to 35 °C / Storage: -20 to + 40 °C	
Humidity	Operation: 20 to 80% RH / Storage: 5 to 85% RH	
Sound Power	Operating: 56dB(A) Draft, 55dB(A) Default, 38dB(A) Best Photo / Ready mode: Background Noise Sleep mode: Background Noise	
Sound Pressure	Operating: 7.0B(A) Draft, 7.0B(A) Default, 5.3B Best Photo / Ready mode: Background Noise Sleep mode: Background Noise	

**LCD PANELS**

22-digit x 5 line LCD

\* For more details please visit [www.epson.com.au](http://www.epson.com.au)

<sup>1</sup> Maximum pages per minute (PPM) are measured after first page with text patterns in Draft Mode on plain paper.

Laser quality black and colour print speeds are determined in default, single-side mode in accordance with ISO / IEC 24734.

Actual print times will vary based on system configuration, print mode, software, and page complexity.

<sup>2</sup> Monthly duty cycle is the highest duty a user could expect in a month, based on near-constant operation of a device of this kind. It is not recommended that the device be run at this duty. For best device performance run the device at the recommended monthly volume.

<sup>3</sup> Weight Excluding Ink Cartridge.

<sup>4</sup> In accordance with the ISO24711 / 24712. Visit [http://www.epson.com.au/downloads/pdf/ISO\\_Yield\\_Testing\\_07.pdf](http://www.epson.com.au/downloads/pdf/ISO_Yield_Testing_07.pdf) for details on ISO testing (pdf).

Actual yields will vary considerably for reasons including images printed, print settings, temperature and humidity.

<sup>1</sup> Most industry leading Colour Laser printers < AUD 700 RRP, Feb 2010. CPP comparisons are based on published specifications of manufacturers' highest capacity cartridge yields in accordance with either the ISO/IEC 19798 or ISO/IEC 24711 standards (which use the ISO/IEC 24712 colour test pages) and published maximum retail price of the cartridge. 4.2 cents colour print cost per page is based on printing using the highest capacity ink cartridges on the Epson B-510DN. CPP calculation: RRP of the cartridge inc. gst. ÷ Cartridge Yield.

<sup>2</sup> Based on Epson's internal testing with the Epson AL-C1100 laser printer. Values are based on Epson's evaluation criteria.

Power consumption: Calculated as 50 A4-size colour prints per day with the power on for 8 hours and off for 16 hours per day, 20 days per month.

Power consumption may vary depending on customer use. Power consumption is calculated based on 230 volt power supply.

Global warming impact: We use a life cycle assessment to calculate the global warming impact of each part of the product life cycle as CO<sub>2</sub> emissions.

The life cycle includes material and product manufacturing, transport, use by customer, and disposal/recycling of end-of-life products. Use is calculated as 50 A4-size colour prints per day with the power on for 8 hours and off for 16 hours per day, 20 days per month for 3 years. Global warming impact may vary depending on customer use and infrastructures of each region. Life cycle CO<sub>2</sub> emission is calculated based on European market conditions.

<sup>3</sup> This function is not 100% guaranteed. Depending on the result of nozzle checking, the printer cleans the print head automatically using ink.

Depending on the environment (dust/vibrations), the print head nozzles may not be entirely unclogged. In this case manual cleaning is recommended.

The Auto Nozzle Check System requires a small amount of ink.

The printer ships with a full set of ink cartridges and some ink from the first set is used for priming the printer. Yields will vary considerably based on images printed, print settings, paper type, frequency of use and ambient temperature. When an ink cartridge needs replacing, you cannot continue copying or printing without replacing the relevant cartridge, even if other cartridges don't need replacing. You should leave a cartridge needing replacement installed in the printer until you have obtained a replacement. Doing otherwise may cause ink remaining in the print head nozzles to dry out and affect printer operation.

To ensure ongoing print quality and trouble-free operation, a variable amount of ink will be present in a cartridge that is low on ink after the "Replace Cartridge" indicator comes on. This printer will use a quantity of ink from each cartridge for print-head cleaning and maintenance and will use ink from all cartridges for both black and colour printing.



Epson B-510DN

**ORDERING INFORMATION**

C11CA67801	Epson Business Printer B-310N
C11CA67401	Epson Business Printer B-510DN

**SUPPLIES**

**Extra-high capacity ink cartridge (B-510DN)**

C13T618100	Black
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**High capacity ink cartridge (B-510DN)**

C13T617100	Black
C13T617200	Cyan
C13T617300	Magenta
C13T617400	Yellow

**Standard capacity ink cartridge (B-310N/B-510DN)**

C13T616100	Black
C13T616200	Cyan
C13T616300	Magenta
C13T616400	Yellow
C13T619000	Maintenance Box

**OPTIONS**

C12C802531	Automatic Duplex Unit
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Better Products for a Better Future™

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