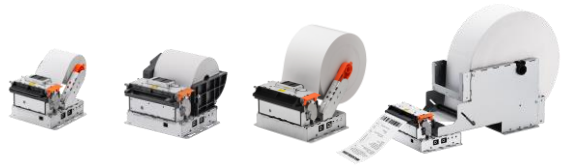
Kiosk & Mechanism

		BK5-31	
Print Characteristics			
Print Method		Direct Thermal	
Print Speed		Up to 150 mm/sec	
Print Resolution		203 dpi	
Print Width		12/48/54/72/ 80 mm	
Sensor		Paper End, Cover Open, Near End, Black Mark, Gap Sensor	
Media Characteristics			
Media Type		Ticket, Label (Gap, Black Mark)	
Media Width		20/58/60/80/83 mm	
Media Roll Diameter		130/150 mm	
Media Thickness		Width 80/83mm: 0.05 ~ 0.15 mm Width 20/58/60mm: 0.05 ~ 0.20 mm	
Supply Method		Easy Paper Loading	
Physical Characteristics			
Dimensions (W x L x H)		Φ130	Φ150
		130 x 181 x 123 mm	130 x 188 x 130 mm
Weight		780 g	
Electrical		100-240 VAC, 50/60 Hz	
Lever Direction		Right	
Mount Direction		Horizontal	
Performance Characteristics			
NV Image Memory		256 Kbytes (Mono)	
Receive Buffer		64 Kbytes	
User Define Buffer		12 Kbytes	
Interface		USB V2.0 FS + Serial	
Connector Type	Power	DC-Jack or 2P Connector	
	USB	USB B or 4P Connector	
	Serial	9P Male or 5P Connector	
Environment Characteristics			
Temperature		Operating: -20~60 °C (-4~140 °F) ※ Optimal printing performances and maximum reliability will be obtained between 0 and 40 °C Storage: -20~60 °C (-4~140 °F)	
Humidity		Operating: 10~95 % (non-condensing) Storage: 10~95 % (non-condensing) excluding paper	
Software			
Emulation		BXL/POS™	
Driver/Utility		Windows® Driver, OPOS Driver, Linux/Mac® CUPS Driver, Utility Program	
Developer Tools		Android SDK, Windows SDK, Linux SDK, Web Print SDK (Windows, Android)	
Fonts/Graphics/Symbologies			
Character Size		Font A: 12×24 Font B: 9×17 Font C: 9×24 KOR, CHN, JPN: 24x24	
Characters Per Line		Print width 12 mm: Font A: 8 Font B, C: 10, KOR, CHN, JPN: 4 Print width 48 mm: Font A: 32 Font B, C: 42, KOR, CHN, JPN: 16 Print width 54 mm: Font A: 36 Font B, C: 48, KOR, CHN, JPN: 18 Print width 72 mm: Font A: 48 Font B, C: 64, KOR, CHN, JPN: 24	
Character Sets		Alphanumeric: 95 Extended Graphics: 128×35 page International: 32	
Graphics		Supporting user-defined fonts, graphics, formats and logos	
Barcode Symbologies		1D: Coda Bar, Code 39, Code 93, Code 128, EAN-8, EAN-13, ITF, UPC-A, UPC-E 2D: Data Matrix, GS1-128, GS1 DataBar Stacked/Omnidirectional/Truncated/Limited/Expanded, PDF417, QR code	
Accessories/Supplies			
Accessories		AC/DC Adapter (DC Jack) AC/DC Adapter (2P Connector) Male to Male type Serial Cable 5P to Male type Serial Cable USB A-B Cable 1.8 m Power Cord	
Options			
Bezel		Non-Bezel, Standard-Bezel (4 types)	
Ticket	Media Width	60 mm	
	Media Thickness	0.05 ~ 0.15 mm	
	Print Speed	Up to 150 mm/sec	
	Thermal Print Head (TPH) Reliability	50 km	
	Auto Cutter Reliability	0.3 Million Cuts	
Retractor (For ticket printing only)	Paper Stock Direction	Upper	
	Media Width	58/60/80 mm	
	Media Thickness	0.10 ~ 0.15 mm	
	Media Length	70 ~ 350 mm	
	Ejection & Retractor Speed	Eject: Up to 150 mm/sec Retractor: Up to 500 mm/sec	
	Basic Movement	Retraction, Continuous	

Kiosk & Mechanism



		BK3-31 Series				BK3-21		
Print Characteristics								
Print Method		Direct Thermal				Direct Thermal		
Print Speed		Up to 250 mm/sec				Up to 250 mm/sec		
Print Resolution		203 dpi				203 dpi		
Print Width		12/48/54/72 mm				12/48/54 mm		
Sensor		Paper End, Cover Open, Near End, Black Mark				Paper End, Cover Open, Near End, Black Mark		
Media Characteristics								
Media Type		Receipt				Receipt		
Media Width		20/58/60/80/83 mm				20/58/60 mm		
Media Roll Diameter		BK3-31: 80/102/120/150 mm BK3-32: Up to 250 mm BK3-33: Up to 83 mm				80/102/120 mm		
Media Thickness		0.05 ~ 0.12 mm				0.05 ~ 0.12 mm		
Supply Method		Easy Paper Loading				Easy Paper Loading		
Physical Characteristics								
Dimensions (W x L x H)		BK3-31				BK3-21		
		Φ80	Φ102	Φ120	Φ150	Φ80	Φ102	Φ120
		130 x 130 x 91 mm	130 x 137 x 99 mm	130 x 144 x 105 mm	130 x 160 x 105 mm	109 x 130 x 91 mm	109 x 137 x 99 mm	109 x 144 x 105 mm
		BK3-31 (Vertical)				BK3-21 (Vertical)		
		Φ80	Φ102	Φ120	Φ150	Φ80	Φ102	Φ120
		130 x 159 x 91 mm	130 x 167 x 99 mm	130 x 173 x 105 mm	130 x 189 x 105 mm	109 x 160 x 91 mm	109 x 167 x 99 mm	109 x 173 x 105 mm
		BK3-32 Φ250: 130 x 339 x 145 mm BK3-33 Φ83: 130 x 137 x 96 mm						
Weight		BK3-31: 700 g BK3-32: 1,470 g BK3-33: 700 g				600 g		
Electrical		100-240 VAC, 50/60 Hz				100-240 VAC, 50/60 Hz		
Lever Direction		Left, Right				Right		
Mount Direction		BK3-31: Horizontal/Vertical BK3-32: Horizontal BK3-33: Horizontal				Horizontal/Vertical		
Performance Characteristics								
NV Image Memory		256 Kbytes (Mono)				256 Kbytes (Mono)		
Receive Buffer		64 Kbytes				64 Kbytes		
User Define Buffer		12 Kbytes				12 Kbytes		
Interface		Standard: USB V2.0 FS + Serial Optional: USB V2.0 FS + Serial + Ethernet				USB V2.0 FS+ Serial		
Connector Type	Power	DC-Jack or 2P Connector				DC-Jack or 2P Connector		
	USB	USB B or 4P Connector				USB B type (Default)		
	Serial	9P Male or 5P Connector				9P Male or 5P Connector		
Environment Characteristics								
Temperature		Operating: -20~60 °C (-4~140 °F) ※ Optimal printing performances and maximum reliability will be obtained between 0 and 40 °C Storage: -20~60 °C (-4~140 °F)				Operating: -20~60 °C (-4~140 °F) ※ Optimal printing performances and maximum reliability will be obtained between 0 and 40 °C Storage: -20~60 °C (-4~140 °F)		
Humidity		Operating: 10~95 % (non-condensing) Storage: 10~95 % (non-condensing) excluding paper				Operating: 10~95 % (non-condensing) Storage: 10~95 % (non-condensing) excluding paper		
Software								
Emulation		BXL/POS™				BXL/POS™		
Driver/Utility		Windows Driver®, OPOS Driver, Linux/Mac® CUPS Driver, Utility Program, Network Auto Installer				Windows Driver®, OPOS Driver, Linux/Mac® CUPS Driver, Utility Program, Network Auto Installer		
Developer Tools		Android™ SDK, Windows SDK, Linux SDK				Android™ SDK, Windows SDK, Linux SDK		
Fonts/Graphics/Symbologies								
Character Size		Font A: 12×24 Font B: 9×17 Font C: 9×24, KOR, CHN, JPN: 24x24				Font A: 12×24 Font B: 9×17 Font C: 9×24, KOR, CHN, JPN: 24x24		
Characters Per Line		Print width 12 mm: Font A: 8 Font B, C: 10, KOR, CHN, JPN: 4 Print width 48 mm: Font A: 32 Font B, C: 42, KOR, CHN, JPN: 16 Print width 54 mm: Font A: 36 Font B, C: 48, KOR, CHN, JPN: 18 Print width 72 mm: Font A: 48 Font B, C: 64, KOR, CHN, JPN: 24				Print width 12 mm: Font A: 8 Font B, C: 10, KOR, CHN, JPN: 4 Print width 48 mm: Font A: 32 Font B, C: 42, KOR, CHN, JPN: 16 Print width 54 mm: Font A: 36 Font B, C: 48, KOR, CHN, JPN: 18		
Character Sets		Alphanumeric: 95 Extended Graphics:128×35 page International: 32				Alphanumeric: 95 Extended Graphics: 128×35 page International: 32		
Graphics		Supporting user-defined fonts, graphics, formats and logos				Supporting user-defined fonts, graphics, formats and logos		
Barcode Symbologies		1D: Coda Bar, Code 39, Code 93, Code 128, EAN-8, EAN-13, ITF, UPC-A, UPC-E 2D: Data Matrix, GS1-128, GS1 DataBar Stacked/Omnidirectional/Truncated/ Limited/Expanded, PDF417, QR code				1D: Coda Bar, Code 39, Code 93, Code 128, EAN-8, EAN-13, ITF, UPC-A, UPC-E 2D: Data Matrix, GS1-128, GS1 DataBar Stacked/Omnidirectional/ Truncated/Limited/Expanded, PDF417, QR code		
Accessories/Supplies								
Accessories		AC/DC Adapter (DC Jack) AC/DC Adapter (2P Connector) Male to Male type Serial Cable 5P to Male type Serial Cable USB A-B Cable 1.8 m Power Cord				AC/DC Adapter (DC Jack) AC/DC Adapter (2P Connector) Male to Male type Serial Cable 5P to Male type Serial Cable USB A-B Cable 1.8 m Power Cord		
Options								
Bezel		Non-Bezel, Standard-Bezel (4 types), LED-Bezel (Green)				Non-Bezel, Standard-Bezel (4 types)		
Presenter (LED-Bezel default)	Paper Stock Direction	Upper						
	Media Width	80 mm						
	Media Thickness	0.05 ~ 0.10 mm						
	Media Length	50 ~ 250 mm						
	Ejection Speed	Up to 250 mm/sec						
Retractor	Paper Stock Direction	Upper						
	Media Width	58/80 mm						
	Media Thickness	0.05 ~ 0.10 mm						
	Media Length	70 ~ 350 mm						
	Ejection & Retractor Speed	Up to 500 mm/sec						
	Basic Movement	Clamp, Retraction, Continuous						

Kiosk & Mechanism

	SMP6350	SMP6200II	SMP6210	SMP695/695L
Print Characteristics				
Print Method	Direct Thermal	Direct Thermal	Direct Thermal	Direct Thermal
Print Speed	250 mm/sec (24 V)	150 mm/sec (24 V)	70 mm/sec (8.5 V)	100 mm/sec (9.5 V)
Print Resolution	203 dpi (8 dot/mm)	203 dpi (8 dot/mm)	203 dpi (8 dot/mm)	203 dpi (8 dot/mm)
Print Width	Up to 72 mm (576 dots)	Up to 54 mm (432 dots)	Up to 48 mm (384 dots)	Up to 48 mm (384 dots)
Media Characteristics				
Media Width	79.5 ± 0.5 mm	57.5 ± 0.5 mm	57.5 ± 0.5 mm	57.5 ± 0.5 mm
Physical Characteristics				
Dimensions (W x L x H)	100.8 x 41.5 x 27.3 mm	78.8 x 46.2 x 22.0 mm	78.8 x 46.2 x 22.0 mm	67.0 x 20.9 x 30.0 mm
Weight	170 g (0.38 lbs.)	168 g (0.37 lbs.)	168 g (0.37 lbs.)	35 g (0.07 lbs.)
Power	Drive: DC 24 V ± 10% Logic: DC 2.7 V ~ 5.5 V	Drive: DC 24 V ± 10% Logic: DC 5 V ± 5%	Drive: DC 8.5 V Logic: DC 2.75 V ~ 5.25 V	Drive: DC 4.5 V ~ 9.5 V Logic: DC 2.75 V ~ 5.25 V
Environment Characteristics				
Temperature	Operating: 0 ~ 45 °C	Operating: 0 ~ 45 °C	Operating: 0 ~ 45 °C	Operating: -5 ~ 45 °C
Fonts/Graphics/Symbologies				
Dot Size	0.125 x 0.125 mm	0.125 x 0.125 mm	0.125 x 0.125 mm	0.125 x 0.125 mm
Character Size	Font A: 12 × 24, Font B: 9 × 24	Font A: 12 × 24, Font B: 9 × 24	Font A: 12 × 24, Font B: 9 × 24	Font A: 12 × 24, Font B: 9 × 24
Characters Per Line	Font A: 32 Font B: 42	Font A: 32 Font B: 42	Font A: 32 Font B: 42	Font A: 32 Font B: 42
Line Pitch	3.75 mm (30 dots)	3.75 mm (30 dots)	3.75 mm (30 dots)	3.75 mm (30 dots)

	SMP690/691	SMP610A	SPP-100II	
Print Characteristics				
Print Method	Direct Thermal	-	Direct Thermal	
Print Speed	100 mm/sec (9.5 V)	52.5 mm/sec (7.2 V)	62.5 mm/sec (8.5 V), 50 mm/sec (7.2 V), 20 mm/s (5V)	
Print Resolution	203 dpi (8 dot/mm)	203 dpi (8 dot/mm)	203 dpi (8 dot/mm)	
Print Width	Up to 48 mm (384 dots)	Up to 48 mm (384 dots)		
Sensor	-	-	Paper End	
Media Characteristics				
Media Width	57.5 ± 0.5 mm	57.5 ± 0.5 mm	57.5 ± 0.5 mm	
Media Roll Diameter	-	-	Up to 40 mm	
Physical Characteristics				
Dimensions (W x L x H)	SMP690: 66.6 x 24.5 (38.2) x 15.0 mm SMP691: 67.4 x 15.3 (29.5) x 31.6 mm	73.8 x 42.3 x 20 mm	80.0 x 74.8 x 45.0 mm	
Weight	SMP690: 48 g (0.10 lbs.) SMP691: 49 g (0.10 lbs.)	70 g	104 g (0.22 lbs.)	
Power	Drive: DC 4.75 V ~ 9.5 V Logic: DC 2.7 V ~ 5.25 V	Drive: DC 3.6 V ~ 7.2 V Logic: DC 2.7 V ~ 5.25 V	DC 5.0 V ~ 8.5 V, 2.4 A (at 7.0V)	
Performance Characteristics				
Interface	-	-	Serial + USB	
Environment Characteristics				
Temperature	Operating: 0 ~ 45 °C	Operating: 0 ~ 45 °C	Operating: 0 ~ 45 °C	
Software				
Emulation	-	-	BXL/POS™	
Fonts/Graphics/Symbologies				
Dot Size	0.125 x 0.125 mm	0.125 x 0.125 mm		
Character Size	Font A: 12 × 24, Font B: 9 × 24	Font A: 12 × 24, Font B: 9 × 24	Font A: 12 × 24, Font B: 9 × 17, Font C : 9 x 24 24 x 24 (KOR,Big5,Shift JIS,GB2312)	
Characters Per Line	Font A: 32 Font B: 42	Font A: 32 Font B: 42	Font A: 32 Font B: 42, Font C : 42 24 x 24 :16	
Barcode Symbologies	-		1D: Codabar, Code 39, Code 93, Code 128, EAN-13, EAN-8, ITF, UPC-A, UPC-E 2D: PDF417, QR CODE	
Line Pitch	3.75 mm (30 dots)	3.75 mm (30 dots)	-	

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