

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: 0.1 to 0.15 mm Width 20/58/60mm: 0.1 to 0.20 mm
Supply Method		Easy Paper Loading
Physical Characteristics		
Dimensions (W x L x H)		Φ130 130 x 181 x 123 mm Φ150 130 x 188 x 130 mm
Weight		780 g
Electrical		100-240 VAC, 50/60 Hz, 24V
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 to 60 °C (-4 to 140 °F) ※ Optimal printing performances and maximum reliability will be obtained between 0 and 40 °C Storage: -20 to 60 °C (-4 to 140 °F)
Humidity		Operating: 10 to 95 % (non-condensing) Storage: 10 to 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)
Retractor (For ticket printing only)	Paper Stock Direction	Upper
	Media Width	58/60/80 mm
	Media Thickness	0.10 to 0.15 mm
	Media Length	70 to 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		BK3-31/34: 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 to 0.12 mm	0.05 to 0.12 mm		
Supply Method		Easy Paper Loading	Easy Paper Loading		
Physical Characteristics					
Dimensions (W x L x H)	BK3-31/34		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	
	BK3-31/34 (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	
Weight		BK3-31/33/ 34: 700 g BK3-32: 1,470 g	600 g		
Electrical		100-240 VAC, 50/60 Hz, 24V	100-240 VAC, 50/60 Hz, 24V		
Lever Direction		Left, Right	Right		
Mount Direction		BK3-31/34: Horizontal/Vertical BK3-32/33: 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 to 60 °C (-4 to 140 °F) ※ Optimal printing performances and maximum reliability will be obtained between 0 and 40 °C	Operating: -20 to 60 °C (-4 to 140 °F) ※ Optimal printing performances and maximum reliability will be obtained between 0 and 40 °C		
Humidity		Storage: -20 to 60 °C (-4 to 140 °F) Operating: 10 to 95 % (non-condensing) Storage: 10 to 95 % (non-condensing) excluding paper	Storage: -20 to 60 °C (-4 to 140 °F) Operating: 10 to 95 % (non-condensing) Storage: 10 to 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/Symbolologies					
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 Symbolologies		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 to 0.10 mm			
	Media Length	50 to 250 mm			
	Ejection Speed	Up to 250 mm/sec			
Retractor	Paper Stock Direction	Upper			
	Media Width	58/80 mm			
	Media Thickness	0.05 to 0.10 mm			
	Media Length	70 to 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 to 5.5 V	Drive: DC 24 V ± 10% Logic: DC 5 V ± 5%	Drive: DC 8.5 V Logic: DC 2.75 V to 5.25 V	Drive: DC 4.5 V to 9.5 V Logic: DC 2.75 V to 5.25 V
Environment Characteristics				
Temperature	Operating: 0 to 45 °C	Operating: 0 to 45 °C	Operating: 0 to 45 °C	Operating: -5 to 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 to 9.5 V Logic: DC 2.7 V to 5.25 V	Drive: DC 3.6 V to 7.2 V Logic: DC 2.7 V to 5.25 V	DC 5.0 V to 8.5 V, 2.4 A (at 7.0V)	
Performance Characteristics				
Interface	-	-	Serial + USB	
Environment Characteristics				
Temperature	Operating: 0 to 45 °C	Operating: 0 to 45 °C	Operating: 0 to 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)	-	