



PRODUCT CATALOG 2018



SHINHEUNG PRECISION CORPORATION HAS MADE ENDLESS EFFORTS TO ACHIVE SUSTAINABLE BUSINESS INNOVATION, TECHNOLOGICAL ADVANCEMENT, AND HUMAN RESOURCES DEVELOPMENT

“Shinheung is a leading corporation which provides the best quality precision machines and service in the digital era. We will be the one, creating human-centered digital era”



OUR VISION MATCHES OUR CUSTOMERS' DREAMS

We promise to make perfect products that meet customers' high expectations. Shinheung will be there with you in your way to make your dreams come true



- Since 1968
- 11 Countries (HQ in Korea)
- 16 Affiliates (Including SAM4S)
- 25 Offices and Factories
- Over 13,000 Employees
- \$ 1.0 Billion
- www.shc.co.kr

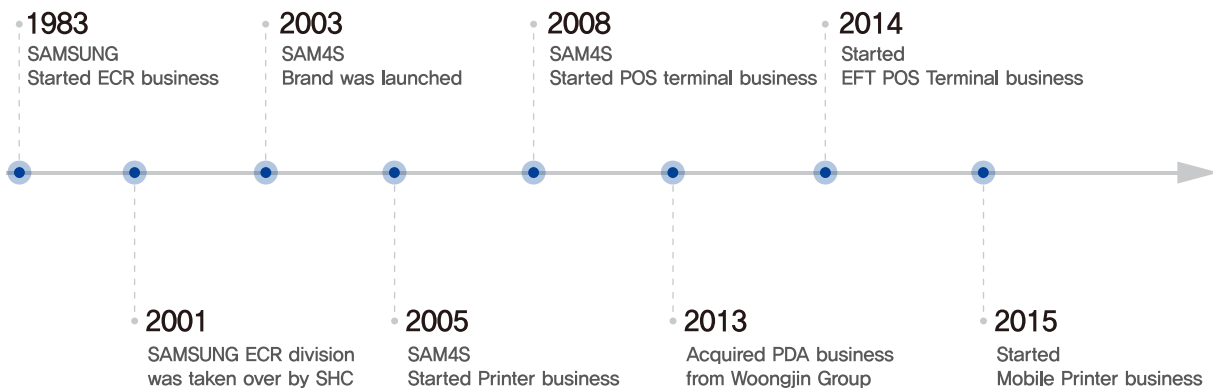
Main Partners



About SAM4S

As a store automation products manufacturer, SAM4S aims to achieve the best quality products and make the most flexible and reliable products at all times. We have human resources with knowledge of more than 30 years of experience in the store automation field. We now produce the most sophisticated and diverse products to the world-wide market. Our store automation products are extensively used in over 60 countries. We are committed to developing future models that provide innovation and solutions to meet the demands of fast moving markets.

Timeline



Why SAM4S?

Complete System Supplier	Experienced R&D Team	Production Capability	Trusted Partners
100+	30 Years+	500,000	60 / 80
Number of SAM4S Product model for POS, PDA, Printer, ECR, EFT POS Terminal and Peripheral	Over 30 Years of Experience for Retail Store Automation	Annual production in SAM4S We have own production system from model making to assembling	60 Countries / 80 Partners Good business relationship with partners

Total Solution Brand SAM4S



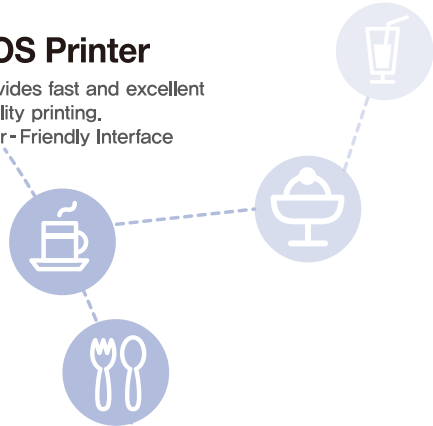
POS Terminal

Style added on performance
Full range of POS solution



POS Printer

Provides fast and excellent
quality printing.
User-Friendly Interface



ECR

15% global market share
Best Partner for Fiscal Project



EFT POS Terminal

Compact and unique design
Accurate and Secure Card
Recognition



Industrial PDA

Right choice for use in
harsh environment



POS Terminal

PROVIDE RELIABLE & VERSATILE HOSPITALITY SOLUTIONS

Drive your hospitality business ahead with high performance technology solutions from an industry leader



◀ TITAN S series

TITAN S series is a SAM4S's newest POS terminal with low energy, high performance CPU in a modern and slim but strong design. With bright and vivid screen provided by an excellent touch monitor with frontal IP55 protection structure, your user experience with TITAN S will be convenient. With its simple assembly design, it is easy to install and convenient for maintenance. The user can efficiently use the shop's space with its slim and compact size and as the cables could be organized under the stand, users also can keep the shop space neat.

POS Terminal

TITAN S Series

Stylish POS Terminal



- Intel Braswell Celeron N3160 or Bay Trail Celeron N2807 CPU
- Energy Efficient and Low Heat Generation Architecture
- Slim Display, Sleek Chassis and Small Footprint Design
- 15" LED LCD Display with True-Flat PCAP Touch
- IP55 Dust and Water Proof in Front Panel
- Supporting M.2 SSD
- Microsoft Azure Certified

TITAN Series

High Performance POS Terminal



- Various Intel CPU Options such as Celeron, Pentium and Core i3/5/7
- 15" LED LCD Display with PCAP Touch
- Slim MSR & Built-in Power Supply
- Tool-less Design Provides Easy Installation and Maintenance
- Upper I/O Panel for Easier Control
- High Gloss in Black or White Finish
- Microsoft Azure Certified

SPT-4800 Series

Reliable and Fanless POS Terminal



- Powerful Performance with Intel Braswell Celeron N3160 CPU
- 15" LED LCD Display with PCAP Touch
- High Gloss in Black or White Finish
- Tool-less Design for Easy Maintenance
- Clean, Quiet Fan Free Design

SPT-4700 Series

Elegant Touch Screen POS Terminal



- Powerful Performance with the Latest Intel Celeron CPU
- 15" LED LCD Display with PCAP Touch
- Silent, Fan-free Systems for Reliability
- Various Customer Display (VFD, 7" , 9.7" & 15" LCD Dual)

POS Terminal

SPT-7000 Series

Stylish All-in-One POS Terminal



- Powerful Performance with Intel Braswell Celeron N3160 CPU
- Minimal Use of Space with Built-in Device (Receipt Printer, Scanner, Power Adaptor)
- Stylish Curved Cabinet Design
- Tool-less Design for Easy Maintenance
- 15" LED LCD Display with PCAP Touch

SAP-6000

15" Touch Screen Android POS Terminal



- Android 6.0 Marshmallow
- High-Performance Android POS System with Intel Celeron CPU
- Fanless Architecture
- No Ventilation Hole System
- IP55 Certified


SAP-630


All-in-One Android POS Terminal






- Android 6.0 Marshmallow
- Large Keyboard for PLU Shortcut Keys
- Ports to Connect Scanner or Remote Printer
- Cost Saving POS Bundle
- Built-in 3" Printer and Cash Drawer



Specification_POS Terminal

Model		TITAN S Series		
Picture				
Submodel		TITAN-S100	TITAN-S200	TITAN-S300
System	CPU	Intel Celeron N2807 (Dual Core 2,16GHz)	Intel Celeron N3160 (Quad Core 2,24GHz)	Intel Celeron J1900 (Quad Core 2,42GHz)
	Storage	HDD : 320GB SSD : 256GB/128GB/64GB mSATA : 256GB/128GB/64GB	HDD : 320GB SSD : 256GB/128GB/64GB M.2 SSD : 256GB/128GB/64GB	HDD : 320GB SSD : 256GB/128GB/64GB mSATA : 256GB/128GB/64GB
	RAM	DDR III 1Slot (Up to 4GB)	DDR III 1Slot (Up to 8GB)	DDR III 1Slot (Up to 4GB)
Display	Size	15" LED LCD (1024 x 768)		
	Input	5W Resistive Touch PCAP Touch (Optional)		
I/O	Serial	4 Ports (R1/5V/12V BIOS Selectable)		
	Parallel	1 Port (Optional)		
	USB	6 Ports (USB 2.0)	6 Ports (2Ports USB 2.0/2Ports USB 3.0-REAR) (2Ports USB 2.0-SIDE)	6 Ports (3Ports USB 2.0/1Port USB 3.0-REAR) (2Ports USB 2.0-SIDE)
	Ethernet & VGA	1 Port		
	Drawer	1 Port/2 CH (12V/24V Selectable)		
	Audio	1 Port (Line out)		
Peripherals	MSR	1/2/3 Track Support (USB)		
	Customer Display	15" LED LCD (1024 x 768) Normal/Flat		
		9,7" LED LCD (1024 x 768) Flat		
		VFD (20CH x 2Line) VFD (256 x 32 Graphic)		
	Expansion Slot	mini PCIe Slot x 1	mini PCIe Slot x 1 m.2 Slot x 1	
Specific Option	VESA Wall Mount, V stand			
Software	OS	POSReady 7 Windows 7, 8, 1, 10 Windows 10 IoT		
Power supply		DC 12V/5A		

Model		TITAN Series	
Picture			
Submodel		TITAN-200	TITAN-500
System	CPU	Intel Celeron N3160 (Quad Core 2,24GHz)	3rd Generaion Intel Core-i7/i5/i3 Intel Celeron Intel Pentium
	Storage	HDD : 320GB SSD : 256GB/128GB/64GB mSATA : 256GB/128GB/64GB	
	RAM	DDR III 2Slots (Up to 8GB)	DDR III 2Slots (Up to 16GB)
Display	Size	15" LED LCD (1024 x 768)	
	Input	5W Resistive Touch PCAP Touch (Optional)	
I/O	Serial	4 Ports (R1/5V/12V BIOS Selectable)	
	Parallel	1 Port (Optional)	
	USB	6 Ports (2Ports USB 2.0-SIDE) (4Ports USB 3.0-REAR)	6 Ports (USB 2.0)
	PS/2	-	
	HDMI	1 Port	-
	Ethernet & VGA	1 Port	
Peripherals	Drawer	1 Port/2 CH (12V/24V Selectable)	
	Audio	3 Ports (Line in & out/Mic, in)	1 Port (Line out)
	Internal Printer	-	
	MSR	1/2/3 Track Support (USB)	
	Scanner	-	
	Fingerprint Reader	Optical USB Type	
	Dallas Key	Magnetic USB Type	
	Customer Display	15" LED LCD (1024 x 768) Normal/Flat	
		9,7" LED LCD (1024 x 768) Flat	
		7" LED LCD (800 x 480) Wide VFD (20CH x 2Line) VFD (256 x 32 Graphic)	
Expansion Slot	PCIe 1 x Slot x 1 mini PCIe Slot x 1	mini PCIe Slot x 1	
Specific Option	VESA Wall Mount, V stand		
Software	OS	POSReady 7 Windows 7, 8, 1, 10 Windows 10 IoT	
Power supply		DC 12V/5A	DC 19V/7,89A

Specification_POS Terminal

Model	SPT-4800 Series		SPT-4700 Series	SPT-7000 Series
Picture				
Submodel	SPT-4850		SPT-4750	SPT-7050
System	CPU	Intel Celeron N3160 (Quad Core 2,24GHz)		
	Storage	HDD : 320GB SSD : 256GB/128GB/64GB mSATA : 256GB/128GB/64GB		HDD : 320GB SSD : 256GB/128GB/64GB mSATA : 256GB/128GB/64GB Support 2 Storage Bay Slots
	RAM	DDR III 2Slots (Up to 8GB)		
Display	Size	15" LED LCD (1024 x 768)		
	Input	5W Resistive Touch PCAP Touch (Optional)	5W Resistive Touch	5W Resistive Touch PCAP Touch (Optional)
I/O	Serial	4 Ports (Rt/5V/12V BIOS Selectable)		
	Parallel	1 Port (Optional)		
	USB	6 Ports (2Ports USB 2.0-SIDE/4Ports USB 3.0-REAR)		
	HDMI	1 Port		
	Ethernet & VGA	1 Port		
	Drawer	1 Port/2 CH (12V/24V Selectable)		
	Audio	3 Ports (Line in & out/Mic, in)		
Peripherals	Internal Printer	-		2" /3" Thermal (270mm/sec)
	MSR	1/2/3 Track Support (USB)		
	Scanner	-		2D Available
	Fingerprint Reader	Optical USB Type		
	Dallas Key	Magnetic USB Type		
	Customer Display	15" LED LCD (1024 x 768) Normal/Flat		
		9.7" LED LCD (1024 x 768) Flat		
		7" LED LCD (800 x 480) Wide		
	Expansion Slot	VFD (20CH x 2Line) VFD (256 x 32 Graphic)		
		PCIe Slot x 1, mini PCIe Slot x 1		
Specific Option	VESA Wall Mount, Support CFast Card		USB Dongle Wi-Fi, Support CFast Card	
Software	OS	POSReady 7 Windows 7, 8, 1, 10 Windows 10 IoT		
Power supply	DC 12V/5A			DC 12V/5A (Printer : DC 24V/2,5A)

Model	SAP-6000		SAP-630
Picture			
Submodel	SAP-6000		SAP-630
System	CPU	Intel Celeron N3160 (Quad Core 2,24GHz)	
	Storage	M.2 SSD 16GB	NAND 8GB
	RAM	DDR III 1Slot (Up to 8GB)	DDR III 2GB
Display	Size	15" LED LCD (1024 x 768)	
	Input	5W Resistive Touch PCAP Touch (Optional)	5W Resistive Touch
Keyboard	Flat / Raised	-	
I/O	Serial	3 Ports (Rt/5V/12V BIOS Selectable)	
	Parallel	1 Port (Optional)	
	USB	6 Ports (2Ports USB 2.0 /2Ports USB 3.0-REAR) (2Ports USB 2.0-SIDE)	
	PS/2 & HDMI	-	
	Ethernet	1 Port	
	VGA	1 Port	
	Drawer	1 Port/2 CH (12V/24V Selectable)	
Audio	3 Ports (Line out)		
Peripherals	Internal Printer	-	
	MSR	1/2/3 Track Support (USB)	
	Dallas Key	-	
	Customer Display	15" LED LCD (1024 x 768) Normal/Flat	
		9.7" LED LCD (1024 x 768) Flat	
		VFD (20CH x 2Line) VFD (256 x 32 Graphic)	
	Expansion Slot	mini PCIe Slot x 1 m.2 Slot x 1	
		-	
	WiFi/Bluetooth	Built-in (Option)	
	SD Card	-	
Specific Option	1 Slot		
Software	OS	Android 6.0 (Marshmallow)	
	DataBase	SQLite	
	TAX	VAT, ADD ON, TAX TABLE	
	Dashboard report	Yes	
	Check Tracking	Table Management, Add/Split/Merge, Reservation	
	Promotion	Promotion, Sweet Deal, Combo Discount	
	User Interface	Support Right/Left Hand UI	
Network	IRC		
Power supply	DC 12V/5A		AC 100~240 Free Voltage

POS Printer

FROM FRONT DESKS AND STADIUMS, TO AIRPORTS AND CONCERT HALLS

Discover the many ways SAM4S ticketing solutions are being used to create lasting customer relationships and benefit business



◀GIANT series

GIANT is the new 3" thermal receipt printer. Distinctive in its very small size, the GIANT is as small or smaller than 2" printers. Nevertheless it performs equal to or better than competing 3" printers. GIANT is a signpost model, pointing the direction to which receipt printers will evolve in the future.

POS Printer

GIANT Series

Smart and Compact POS Printer



- Compact Size and Smaller Footprint
- Conveniently Provides NFC Tag
- Faster Speed 250mm/sec
- Jam Free Auto Cutter
- Tool-less Design
- Various Interfaces

ELLIX Series

Powerful and Reliable POS Printer



- Faster Speed 270mm/sec
- Comprehensive Barcode Formats
- Low Power Consumption and Paper Saving
- Jam Free Auto Cutter
- Tool-less Design
- Various Interfaces

SHMP Series

Direct Thermal Mobile Printer



- 2" / 3" Bluetooth Portable Printer
- Compact and Lightweight Design
- Faster Speed 100mm/sec
- Long Lasting Battery Life
- Intergrated Card Reader (MSR)

Mechanism


High Performance and Compact Printer Mechanism





- High Speed and Quality
- Printing-Durability and Low Noise
- Easy Paper Loading
- Cover Closed Sensor (switch) to Increase the Accuracy
- Low Power Consumption and Paper Saving




Specification_POS Printer

Model		GIANT Series	
Picture			
Submodel		GIANT-100	GIANT PRO (NFC Tag)
Printing Method		Thermal Line Printing	
Resolution		180dpi	
Printing Speed	Mono Paper 80mm	Max. 250mm/sec (59lines/sec)	
	Mono Paper 58mm	150mm/sec	
	Two Color Paper	100mm/sec	
Paper	Loading	Drop-In Type	
	Width	Max. 80,0mm/58,0mm	
	Diameter	Max. Ø 83,0mm	
Memory	PGM Memory	2MByte	
	DATA Memory	8MByte	
	DATA Buffer	64KByte	
Reliability	Mechanism (MCFB)	70,000,000 Lines	
	TPH	1 x 10 ⁹ Pulses / 150Km	
	Auto Cutter	1,500,000 Cuts	
Drawer Port		2 Ports (+24V)	
Barcode		UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93 Code 128, ITF, CODABAR, PDF417, QRCode	
Driver / Utility		Windows Driver, OPOS Driver, JPOS Driver (Linux&Mac), Cups Driver (Linux&Mac), Utility Program	
SDK		iOS SDK, Android SDK	
Interface		USB + Serial (25Pin), USB + Serial (9Pin + RJ45), USB + Wi-Fi, USB + Serial + Ethernet (3-Combo)	USB + Serial + Ethernet (3-Combo)
Dimensions (with Foot Rubber)		131(W) x 155(D) x 133(H)mm	
Weight		1,0 Kg	
Color		Black(Matt/High-glossy), White	
Emulation		EPSON, STAR	
Option	LCD Display	-	
	Paper Near End Sensor	Yes (Only Horizontal)	
	Kitchen Bell	Yes	
	Wall Mount Kit	Default	
	Splash Cover	Yes	
	Paper Separator (58mm)	Default	
Power Supply		DC 24V/2.5A	
NFC Function		-	
		ISO/IEC 14443A Compatible	

Model		ELLIX Series	
Picture			
Submodel		ELLIX45II	ELLIX40II
Printing Method		Thermal Line Printing	
Resolution		180dpi	
Printing Speed	Mono Paper 80mm	Max. 270mm/sec (63lines/sec)	
	Mono Paper 58mm	150mm/sec	
	Two Color Paper	100mm/sec	
Paper	Loading	Drop-In Type	
	Width	Max. 80,0mm/58,0mm	
	Diameter	Max. Ø 83,0mm	
Memory	PGM Memory	10MByte	
	DATA Memory	8MByte	
	DATA Buffer	64KByte	
Reliability	Mechanism (MCFB)	70,000,000 Lines	
	TPH	1 x 10 ⁹ Pulses/150Km	
	Auto Cutter	2,000,000 Cuts	
Drawer Port		2 Ports (+24V)	
Barcode		UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93 Code 128, ITF, CODABAR, PDF417, QRCode	
Driver / Utility		Windows Driver, OPOS Driver, JPOS Driver (Linux&Mac), Cups Driver (Linux&Mac), Utility Program	
SDK		iOS SDK, Android SDK	
Interface		USB Only, USB + Serial (25Pin), USB + Serial (9Pin + RJ45), USB + Parallel, USB + Bluetooth, USB + Wi-Fi, USB + Serial + Ethernet (3-Combo)	
Dimensions (with Foot Rubber)		144(W) x 199(D) x 138(H)mm	
Weight		2,0 Kg	
Color		Black, White	
Emulation		EPSON, STAR	
Option	LCD Display	Yes	
	Paper Near End Sensor	Default	
	Kitchen Bell	Yes	
	Wall Mount Kit	Yes	
	Splash Cover	Yes	
	Paper Separator (58mm)	Yes	
Power Supply		DC 24V/2.5A	

Specification_POS Printer

Model		ELLIX Series	
Picture			
Submodel		ELLIX42	ELLIX35III
Printing Method		Thermal Line Printing	
Resolution		203dpi	180dpi
Printing Speed	Mono Paper 80mm	Max. 220mm/sec (58lines/sec)	
	Mono Paper 58mm	150mm/sec	
	Two Color Paper	100mm/sec	
Paper	Loading	Drop-In Type	
	Width	Max. 80,0mm/58,0mm	
	Diameter	Max. Ø 83,0mm	
Memory	PGM Memory	10MByte	2MByte
	DATA Memory	8MByte	
	DATA Buffer	64KByte	
Reliability	Mechanism (MCCBF)	70,000,000 Lines	
	TPH	1 x 10 ⁸ Pulses/150Km	
	Auto Cutter	2,000,000 Cuts	
Drawer Port		2 Ports (+24V)	
Barcode		UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93 Code 128, ITF, CODABAR, PDF417, QRCode	
Driver / Utility		Windows Driver, OPOS Driver, JPOS Driver (Linux&Mac), Cups Driver (Linux&Mac), Utility Program	
SDK		iOS SDK, Android SDK	
Interface		USB Only, USB + Serial (25Pin), USB + Serial (9Pin + RJ45), USB + Parallel, USB + Bluetooth, USB + Wi-Fi, USB + Serial + Ethernet (3-Combo)	USB + Serial (25Pin), USB + Serial (9Pin + RJ45), USB + Parallel, USB + Serial + Ethernet (3-Combo)
Dimensions (with Foot Rubber)		144(W) x 195(D) x 137(H)mm	144(W) x 199(D) x 138(H)mm
Weight		2.0 Kg	
Color		Black, White	
Emulation		EPSON, STAR	
Option	LCD Display	Yes	-
	Paper Near End Sensor	Default	-
	Kitchen Bell	Yes	-
	Wall Mount Kit	Yes	-
	Splash Cover	Yes	-
	Paper Separator (58mm)	Yes	-
Power Supply		DC 24V/2,5A	

Model		ELLIX Series		
Picture				
Submodel		ELLIX30III	ELLIX32III	ELLIX40F
Printing Method		Thermal Line Printing		
Resolution		180dpi	203dpi	180dpi
Printing Speed	Mono Paper 80mm	Max. 230mm/sec (54lines/sec)	Max. 180mm/sec (48lines/sec)	Max. 270mm/sec (63lines/sec)
	Mono Paper 58mm	150mm/sec		
	Two Color Paper	100mm/sec		
Paper	Loading	Drop-In Type		
	Width	Max. 80,0mm/58,0mm		
	Diameter	Max. Ø 83,0mm		
Memory	PGM Memory	2MByte	10MByte	
	DATA Memory	8MByte		
	DATA Buffer	64KByte		
Reliability	Mechanism (MCCBF)	70,000,000 Lines		
	TPH	1 x 10 ⁸ Pulses/150Km		
	Auto Cutter	2,000,000 Cuts		
Drawer Port		2 Ports (+24V)		
Barcode		UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93 Code 128, ITF, CODABAR, PDF417, QRCode		
Driver / Utility		Windows Driver, OPOS Driver, JPOS Driver (Linux&Mac), Cups Driver (Linux&Mac), Utility Program		
SDK		iOS SDK, Android SDK		
Interface		USB + Serial (25Pin), USB + Serial (9Pin + RJ45), USB + Parallel, USB + Serial + Ethernet (3-Combo)	USB (B type) + Serial (RJ45) + Ethernet	
Dimensions (with Foot Rubber)		144(W) x 195(D) x 137(H)mm		144(W) x 224(D) x 182(H)mm
Weight		2.0 Kg		2.4 Kg
Color		Black, White		
Emulation		EPSON, STAR		
Option	LCD Display	-	Yes	
	Paper Near End Sensor	Yes	Default	
	Kitchen Bell	Yes	-	
	Wall Mount Kit	Yes	-	
	Splash Cover	Yes	-	
	Paper Separator (58mm)	Yes	-	
Power Supply		DC 24V/2,5A		

Specification_Mobile Printer & Mechanism

Model		SHMP Series		
Picture				
Submodel		SHMP-200	SHMP-300	
Printing Method		Thermal Line Printing		
Resolution		203dpi		
Printing Speed		Max. 100mm/sec		
Paper	Loading	Drop-In Type		
	Width	Max. 58,0mm	Max. 80,0mm	
	Diameter	Max. Ø 30,0mm	Max. Ø 40,0mm	
Memory	Flash	8Mbytes		
	SDRAM	16Mbytes		
Character	Size	Font A	12 x 24	
		Font B	9 x 24	
	Column Capacity	Font A	32	48
		Font B	42	64
Character Set		Alphanumeric Characters : 95 Extended Characters : 128 x 30 Page International Characters : 32		
Barcode		UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93 Code 128, ITF, CODABAR, PDF417, QRCode, DATAMATRIX		
SDK		iOS SDK, Android SDK, Windows SDK		
Driver		Windows, Linux, Android OS driver compatible		
Interface		USB, Bluetooth		
Sensor	Cover Open	Micro S/W Type		
	Paper End	Photo Interrupter		
Dimensions		79,5(W) x 104,4(D) x 37,3(H)mm	104,5(W) x 126,8(D) x 45,4(H)mm	
Battery		7.4V/1,100mAh Rechargeable Li-ion	7.4V/1,800mAh Rechargeable Li-ion	
Weight (including battery)		193,5g/197,5g (with MSR)	299g/303,7g (with MSR)	
Emulation		EPSON		
Operating Condition	Temperature	-10°C ~ 40°C		
	Humidity	30% ~ 80%		
	MSR	Triple Track (Bi-directional)		
Option	MFI & USB Cable	Yes		
	Belt Clip & Car Charger	Yes		
	Quad Battery Charger	Yes	No	
	External Battery Cradle	Yes	No	

Model		SMT-280 Series		SMT-281 Series
Picture				
Submodel		STM-280H/280HN	STM-280V/280VN	STM-281VN
Printing Format	Dot Pitch	Vertical Direction 0.125mm Horizontal Direction 0.125mm		
	Character Structure	12(W) x 24(H)mm		
	Character Size	1,5(W) x 3,0(H)mm		
	Number of Columns	32		
Available Printing Width		48,0mm		
Printing Speed		Max. 100mm/sec		
Printing Direction		Unidirection with Friction Feed		
Paper Feeding	Feeding Method	Friction Feed (Drop In Type)		
	Minimum Feed Pitch	0,0625mm		
P/Supply Voltage	Power Supply Voltage	6V ~ 9,5V		
	Circuit Input Voltage	3,3V, 5V DC ±5%		
TPH	Heat Element Density	8 dots/mm (0,125mm/dot)		
	Total Number of Head Elements	384 dots/line		
	Heat Element Typical Resistance Value	176Ω ±4%		
	Available Printing Width	48mm		
Line Feed Motor		PM Type Stepping Motor		
Sensors	Head Temperature	Thermistor		
	Paper End Sensor	Reflection Photo Sensor		
	Printer Cover Open Sensor	STM-280H : Micro Switch STM-280HN : None	STM-280V : Micro Switch STM-280VN : None	None
Paper Feeding	Paper Type	Single-Ply Thermal Paper Roll		
	Paper Size	57,5mm ±0,5mm(W) Max Ø70mm or Less		
Reliability	Life	15,000,000 lines		
	MCBF	37,000,000 lines		
	TPH	1 x 10 ⁸ Pulses / 150Km		
Dimensions		30(W) x 15(H) x 69,5(L)mm		19,7(W) x 31,5(H) x 69,5(L)mm

ECR

RETAIL SOLUTIONS FOR ALL AREAS OF YOUR BUSINESS

Explore the innovative products designed for your retail business that offer outstanding value, results and a better bottom line



◀NR-500 series

Reliable, Easy-to-Use Electronic Cash Register, NR-500 series is a powerful solution suited for a wide range of retail and hospitality operations. This model is convenient to use as it provides the operator a high-visible display and other advance features.

ECR

NR-500 Series



Easy and Intuitive ECR

- Available in Both Retail and Hospitality Versions
- Wide Multi Lines Graphic Display
- 16 Char. x 2 Lines LCD Rear Display
- Electronic Journal Data Keeping Using SD Card
- Easy Data Back up, Restore and Report Polling Using SD, USB, PC
- Data Management and Programming by Ethernet Based PC Utility (Back office)

NR-400 /300 Series



Compact and Portable ECR

- Built-in Power Battery
- Space Saving Design for Small Business
- Electronic Journal Data Keeping Using SD Card
- Easy Data Back up, Restore and Report Polling Using SD, USB, PC
- Data Management and Programming by Ethernet Based PC Utility (Back office)

ER-260EJ Series



Affordable and Functional ECR

- Available in Both Retail and Hospitality Versions
- Supports Various Communication Interfaces
- Electronic Journal Data Keeping Using SD Card
- Easy Data Back up, Restore and Report Polling Using SD, USB, PC
- Data Management and Programming by Ethernet Based PC Utility (Back office)

ER-900 Series



Smart Cash Register

- Reliable Hardware and Proven Software
- Various Keyboard Types Suitable for Any Business Environments
- Electronic Journal Data Keeping Using SD Card
- Easy Data Back up, Restore and Report Polling Using SD, USB, PC
- Data Management and Programming by Ethernet Based PC Utility (Back office)

Specification_ECR

Model		NR-500 Series	NR-400 Series
Picture			
Submodel		NR-510/520	NR-420/430
Printer	Type	NR-510 : 1 Station Thermal (2') NR-520 : 2 Station Thermal (2')	NR-420 : 1 Station Thermal (2') NR-430 : 1 Station Thermal (3')
	Speed	70mm/sec (18lines/sec)	
	Paper Width	57,5mm	
	Paper End Sensor	Yes	
Display	Operator	192 x 64 Graphic LCD with Blue B/L	
	Customer	16Char, x2Lines LCD with Blue B/L (Optional)	
Keyboard	Flat	90 Keys (Optional)	
	Raised	48 Keys	
System	CPU	32bit (Rx-631, Renesas)	
	Program	2MByte Flash (CPU Internal)	
Memory	Data	4Mbit SRAM	
	Ext. (Opt.)	4Mbit SRAM (Total 8Mbit)	
	Data Storage	60 Days	
Fiscal Memory	EPROM	4Mbit OTPROM	
	RS-232C	3 Ports (RJ45 x 2, D-SUB 9Pin x 1)	
Interface	USB	Host : 1 Port (Mass Storage/Scanner) Device : 1 Port (PC) (Host/Device Selectable)	
	Network	Ethernet (10/100 Mbps)	
	GPRS Modem	Built-in (Optional)	
Drawer	Type	Small/Large Available	
	Port	1 Port	
Peripherals		Operator Key, Scanner (Serial/USB), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, SD Card (2 Slots : 1-Internal, 1-External)(SDHC Compatible)	
S/W	Keyboard Departments	Raised : 12/Flat: 60	
	PLU's	1000 (Max,8000)	
	Group	20 (Max,99)	
	Clerk	10 (Max,99)	
	Tax	VAT, ADD ON, TAX TABLE	
	Electronic Journal	Yes (SD Card)	
	Euro Currency Conversion	Yes	
	Graphics Logo	Yes	
	Daily and Periodic Reporting	Yes	
	Table Management	Yes	
	PLU Descriptors size	24	
	F/W Update	PC/SD Card	
	PC Utility	Ethernet/Serial/USB	

Model		NR-300 Series	ER-260EJ Series
Picture			
Submodel		NR-320/330	ER-260EJ/265EJ
Printer	Type	NR-320 : 1 Station Thermal (2') NR-330 : 1 Station Thermal (3')	1 Station Thermal (2')
	Speed	70mm/sec (18lines/sec)	
	Paper Width	57,5mm	
	Paper End Sensor	Yes	
Display	Operator	16Char x2Lines LCD with Blue B/L	
	Customer	16Char x2Lines LCD with Blue B/L	
Keyboard	Flat	-	
	Raised	35 Keys	
System	CPU	32bit (Rx-631, Renesas)	
	Program	2MByte Flash (CPU Internal)	
Memory	Data	4Mbit SRAM	
	Ext. (Opt.)	4Mbit SRAM (Total 8Mbit)	
	Data Storage	60 Days	
Fiscal Memory	EPROM	4Mbit OTPROM	
	RS-232C	2 Ports (RJ45 x 2)	
Interface	USB	Host : 1 Port (Mass Storage/Scanner) Device : 1 Port (PC) (Host/Device Selectable)	
	Network	Ethernet (10/100 Mbps)	
	GPRS Modem	Built-in (Optional)	
Drawer	Type	-	
	Port	1 Port, RJ11(24V)	
Peripherals		Scanner (Serial/USB), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, SD Card (2 Slots : 1-Internal, 1-External)(SDHC Compatible)	
S/W	Keyboard Departments	4 (Max, 8 DEPT, with SHIFT Keys)	
	PLU's	1000 (Max,8000)	
	Group	20 (Max,99)	
	Clerk	10 (Max,99)	
	Tax	VAT, ADD ON, TAX TABLE	
	Electronic Journal	Yes (SD Card)	
	Euro Currency Conversion	Yes	
	Graphics Logo	Yes	
	Daily and Periodic Reporting	Yes	
	Table Management	-	
	PLU Descriptors size	24	
	F/W Update	PC/SD Card	
	PC Utility	Ethernet/Serial/USB	

Specification_ECR

Model		ER-230EJ	ER-180U
Picture			
Submodel		ER-230EJ	ER-180U
Printer	Type	1 Station Thermal (2")	
	Speed	70mm/sec (18lines/sec)	65mm/sec (17.3lines/sec)
	Paper Width	57,5mm	
	Paper End Sensor	Yes	
Display	Operator	16Char. x 2Lines LCD with Blue B/L	8 Digits LED
	Customer	16Char. x 2Lines LCD	8 Digits LED (Optional)
Keyboard	Flat	—	
	Raised	40 Keys with Cap	48 Keys
System	CPU	32bit (Rx-631, Renesas)	32bit (LPC1519, NXP)
	Program	2MByte Flash (CPU Internal)	256KByte Flash (CPU Internal)
Memory	Data	4Mbit SRAM	96KByte Serial-EEPROM
	Ext. (Opt.)	4Mbit SRAM (Total 8Mbit)	—
	Data Storage	60 Days	90 Days
Fiscal Memory	EPROM	4Mbit OTPROM	—
	RS-232C	2 Ports (RJ45 x2)	Use only firmware update
Interface	USB	Host : 1 Port (Mass Storage/Scanner) Device : 1 Port (PC) (Host/Device Selectable)	—
	Network	Ethernet (10/100 Mbps)	—
	GPRS Modem	Built-in (Optional)	—
	Drawer	Type Port	3B4C, 4B4C 1 Port, RJ11(24V)
Peripherals		Scanner (Serial/USB), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, SD Card (2 Slots : 1-Internal, 1-External)(SDHC Compatible)	
S/W	Keyboard Departments	12	16
	PLU's	1000 (Max,8000)	500
	Group	20 (Max,99)	—
	Clerk	10 (Max,99)	10
	Tax	VAT, ADD ON, TAX TABLE	4
	Electronic Journal	Yes (SD Card)	Yes
	Euro Currency Conversion	Yes	—
	Graphics Logo	Yes	—
	Daily and Periodic Reporting	Yes	—
	Table Management	—	—
	PLU Descriptors size	24	12
	F/W Update	PC/SD Card	PC
	PC Utility	Ethernet/Serial/USB	—

Model		SPS-300 Series	ER-900 Series
Picture			
Submodel		SPS-320/325/340/345	ER-920/925/940/945
Printer	Type	SPS-320/325 : 1 Station Thermal (2") SPS-340/345 : 2 Station Thermal (2")	ER-920/925 : 1 Station Thermal (2") ER-940/945 : 2 Station Thermal (2")
	Speed	85mm/sec (22lines/sec)	
	Paper Width	57,5mm	
	Paper End Sensor	Yes	
Display	Operator	192 x 64 Graphic LCD with Blue B/L	16Char. x 2Lines LCD with Blue B/L
	Customer	16Char. x 2Lines LCD with Blue B/L	16Char. x 2Lines LCD
Keyboard	Flat	SPS-320/340 : 150 Keys	ER-920/940 : 150 Keys
	Raised	SPS-325/345 : 63 or 91 Keys	ER-925/945 : 63 or 91 Keys
System	CPU	ARM7(LPC2470, NXP)	
	Program	16Mbits Flash	
	Data	16Mbit SRAM (Default)	4Mbit SRAM
	Ext. (Opt.)	—	16Mbit SRAM (Total 16Mbit)
Fiscal Memory	Data Storage	90 Days	
	EPROM	2Mbit	
Interface	RS-232C	3 Ports	
	USB	1 Port (PC)	
	Network	IRC 1 Port (Max. 16 sets)	—
	GPRS Modem	—	
Drawer	Type	5B5C, 4B8C	
	Port	2 Port	
Peripherals		MSR, Operator Key, Scanner (Serial), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, Kitchen Video, SD Card (1 Slot: 1-External)	
S/W	Keyboard Departments	28/63/100	
	PLU's	2000 (Max,20,000)	
	Group	20 (Max,99)	
	Clerk	10 (Max,99)	15(Max,99)
	Tax	VAT, ADD ON, TAX TABLE	
	Electronic Journal	Yes	
	Euro Currency Conversion	Yes	
	Graphics Logo	Yes	
	Daily and Periodic Reporting	Yes	
	Table Management	Yes	
	PLU Descriptors size	18	
	F/W Update	PC/SD Card	
	PC Utility	Serial/USB	

Industrial PDA

ACCURATE, EFFICIENT & COST-EFFECTIVE

Improve your operational efficiency while reducing costs with SAM4S line of innovative and reliable logistics solutions



◀ SHR-1000

SHR-1000 is a feature rich extremely rugged (IP67 & 2.0m drop test) handheld computer. Ideally suited for logistics, merchandising, pre-sales and field sales/service organisations. Its integrated scanner, camera and flash, GPS and phone eliminate the need for users having to carry multiple devices.

Industrial PDA

SHM-1000

Intergrated Printer, Powerful MPOS Terminal



- Integrated 2" Thermal Printer
- EMV Level 1&2
NFC (ISO18092)
RFID (ISO14443)
- Contactless Payment Terminal
(Europay, Master and Visa Card Certified)
- Windows CE 5.0

SHM-200

Android All-in-One Mobile Computer



- Qualcomm Snapdragon Quad Core 1.2GHz
- Android 4.1.2 Jelly Bean
- Integrated 2" Thermal Printer
- 4" IPS LCD, Super Sensitive Touch Screen
- Biometric Support (Finger Print Reader)

SHR-1000

Fully Rugged Handheld Computer



- IP67 Sealing
2m Drop Tolerance
MIL-STD 810G
- Cortex A8 1GHz CPU
- Powerful Battery Capacity
(6,600mAh incl. 2,200mAh Gun Battery)
- Numeric and QWERTY Keypad

SHR-200

Android Multi-Purpose Handheld Computer



- Qualcomm Snapdragon Quad Core 1.2GHz
- Light and Compact Design
- Android 4.1.2 Jelly Bean
- IP65 Sealing 1.2m Drop Tolerance
- 3.7" IPS LCD with Corning Gorilla Glass

Specification_Industrial PDA

Model	SHM-1000	SHM-7700	SHM-200
Picture			
CPU	ARM11 800MHz	ARM11 800MHz	Qualcomm Quad Core 1,2GHz
OS	Windows Embedded Handheld 6,5 Windows CE, NET 5,0		Android 4,1,2
Memory	1GB Flash ROM 256MB RAM	512MB/1GB Flash ROM 128MB/256MB RAM	4GB Flash ROM 1GB RAM
Display	3,5" QVGA (320 x 240) TFT Resistive Touch Screen		4,0" WVGA (800x480) IPS 5-Point Capacitive Multi Touch Screen
Keypad	Numeric		
Communications	IEEE 802,11a/b/g/n	IEEE 802,11a/b/g	IEEE 802,11 b/g/n
	GSM/GPRS/EDGE/WCDMA/HSDPA		GSM/GPRS/EDGE/WCDMA/HSPA CDMA2000/CDMA 1X
	—	Bluetooth 2,0 Class 2 GPS (Integrated SIRF Star 3)	Bluetooth 4,0 +EDR GPS (Integrated SIRF A-GPS)
Printer	2" Thermal Printer		
MSR	Triple Track (Bi-directional)		
IC Card	IC Card reader with 4 SAM, EMV Level I & II Certified, ISO7816		IC Card reader with 1 SAM, ISO7816
RFID	ISO18092 (NFC), ISO14443 A/B	ISO14443 A/B	
Scanner	1D Laser Class II or 2D CMOS Imager (Optional : HD)		1D Laser Class II or 2D CMOS Imager
Camera	5,0M Pixels Auto Focus with Flash LED		
Audio	Speaker	Speaker, Earmicrophone Jack, Microphone	Speaker, Receiver, Microphone, Vibrator, Mini USB Headphone
Expansion	Micro SD Card slot		
Battery	7,4V/2,600mAh Rechargeable Li-ion	7,4V/2,000mAh Rechargeable Li-ion	7,4V/3,000mAh Li-Polymer
Cradle	USB Host(A type) or Ethernet(RJ45), Client(Mini B) RS-232C 9Pin, DC Jack, Battery Charging Slot	USB Host/Client (Mini B/Standard B) RS-232C 9Pin, DC Jack, Battery Charging Slot	None
Operation Temperature	-10 °C ~ 50 °C		-20 °C ~ 60 °C
Storage Temperature	-20 °C ~ 60 °C		-40 °C ~ 80 °C
Humidity	95%		90%
Drop Spec	Stands 1,2 meter Drop to Steel		Stands 1,2 meter Drop Test
Dimensions	112(W) x 244(H) x 64,2(D)mm	82,24(W) x 216,2(H) x 59,2(D)mm	89 (min,73)(W) x 226(H) x 54(min,31)(D)mm
Weight (including battery)	636g	512g	620g
Payment	Contact EMV L1 & L2 Contactless EMV L1 & L2, Master PayPass & Visa Wave	—	—
Additional Feature	—	Security : PCI-PTS 2.x	Finger Print Reader (508dpi, 14,4 x 10,4 mm)

Model	SHR-1000	SHR-200
Picture		
CPU	Cortex-A8 1GHz	Qualcomm Quad Core 1,2GHz
OS	Windows Embedded Handheld 6,5	Android 4,1,2
Memory	1GB Flash ROM 256MB DRAM	4GB Flash ROM 1GB RAM
Display	3,5" VGA (640x480) TFT Resistive Touch Screen	3,7" WVGA (800x480) IPS 5-Point Capacitive Multi Touch Screen Corning Gorilla Glass
Keypad	Numeric, Qwerty	Numeric
Communications	IEEE 802,11a/b/g/n	IEEE 802,11a/b/g
	GSM/GPRS/EDGE/UMTS/HSPA+	GSM/GPRS/EDGE/WCDMA/HSPA CDMA2000/CDMA 1X
	Bluetooth 2,1 + EDR S-GPS (GPS + Glonass)/A-GPS	Bluetooth 4,0 + EDR GPS(Integrated A-GPS)
RFID	ISO14443 A/B, ISO15693	
Scanner	1D Laser Class II or 2D CMOS Imager	
Camera	5,0M Pixels Auto Focus with Flash LED	5,0M Pixels Auto Focus
Audio	Speaker, Receiver, Microphone, Vibrator	
Expansion	Micro SD Card slot	
Battery	3,7V/4,400mAh Rechargeable Li-ion (Gun : 3,7V/2,200mAh Rechargeable Li-ion)	3,7V/3,600mAh Rechargeable Li-Polymer (Backup : 3,7V/150mAh Rechargeable Li-Polymer)
Cradle	USB Host (Standard B)/Client (Mini B) RS-232C 9Pin, DC Jack Battery Charging Slot	USB/OTG port (Micro USB) DC Jack Battery Charging Slot
Operation Temperature	-20 °C ~ 50 °C	-20 °C ~ 60 °C
Storage Temperature	-40 °C ~ 70 °C	-40 °C ~ 80 °C
Humidity	95%	95%
Drop Spec	Stands 2,0m drop to steel MIL-STD-810G, Method 516.6	Stand 1.2 meter drop test
Sealing	IP67 (IEC 60529 : 2001) MIL-STD-810G, Method 512.5	IP65
Dimensions	84(W) x 169(H) x 36,4(D) mm	73(W) x 165(H) x 34(D) mm
Weight (including battery)	398g	275g

EFT POS Terminal

TAKE ADVANTAGE OF OUTSTANDING, FLEXIBLE AND RELIABLE RETAIL SOLUTIONS

Stay competitive with technology that can drive your business forward. SAM4S retail solutions support customer engagement, increased sales, and more efficient cost management to help retail enterprises exceed their vision



◀SHC-550

SHC-550 is an EFT POS terminal with 3" integrated printer. SHC-550 features a 4.3" color LCD, more vivid and wider than our prior model. In addition, its distinctive and elegant design and compact size sets it apart from competitive products.

EFT POS Terminal

SKY

Mobile Payment Terminal



- Compact Size Light Weight
- Integrated 2" Thermal Printer with 2.4" Color LCD
- MSR and Smart Card Reader (EMV Level 1&2)
- Long Life Battery : 7.4V, 2,600mAh
- WCDMA(3G), 1-SIM

SHC-550

The Next Generation EFT POS Terminal



- Integrated 3" Thermal Printer
- High Speed Printing 230mm/sec
- Large Internal Memory (256Mbyte)
- User-Friendly Interface with Full Color Display
- Jam Free Auto Cutter
- MSR and Smart Card Reader (EMV Level 1&2)

SHC-350

Color Display EFT POS Terminal



- Integrated 3" Thermal Printer
- User-Friendly Interface with Full Color Display
- Faster Speed 200mm/sec
- Jam Free Auto Cutter
- MSR and Smart Card Reader (EMV Level 1&2)

SHC-320 / 210

Simple EFT POS Terminal



- Simple Design with Compact Size
- Integrated 2" / 3" Thermal Printer
- Faster Speed 200mm/sec (SHC-320)
- Jam Free Auto Cutter
- MSR and Smart Card Reader (EMV Level 1&2)
- Various Interfaces

EFT POS Terminal

Signature Pad | Sophisticated Slim Cover with a Sheen



SSP-1100



SSP-2000



SSP-3000

- Graphic LCD Touch Screen, 128 x 64
- Provides Smooth Drawing
- Integrated Key Pad (SSP-2000)
- Integrated MSR and Smart Card Reader EMV Level 1&2 (SSP-3000)




Specification_EFT POS Terminal

Model	SKY	SHC Series	
Picture			
Submodel	SKY	SHC-550	
Main	CPU	AT91SAM9G35, 400MHz	
	OS	Embedded Linux (2.6.x)	
	Memory	Flash ROM	128Mbytes
		SDRAM	128Mbytes
	MSR	ISO7811 Standard, 2/3 Track	
	Display	2.4" (320 x 240) TFT Color LCD	4.3" (480 x 272) TFT Color LCD
	Printer	Printing Method	2" Thermal
Printing Speed		Max, 90mm/sec	
Smart Card	Modern	WCDMA(3G), 1-SIM	
	Key Pad	20 Keys (Alpha/Num x12, Function x8)	
	Smart Card	EMV Level 1 & 2 Certified, ISO7816	
Interface	Sam Socket	2-SAM	
	Serial	—	
	USB	1 Port (Type mini-B)	
	Ethernet	—	
	Telephone	—	
Dimensions	Drawer	—	
	Dimensions	81(W) x 171(D) x 41(H)mm	
Power Supply	Battery 7.4V/2600mAh, DC 9V/1.5A	DC 24V/2.5A	

Specification_EFT POS Terminal

Model		SHC Series				
Picture						
	Submodel	SHC-350	SHC-320	SHC-210		
	Main	CPU	AT91SAM9G35, 400MHz			
OS		Embedded Linux (2.6.x)				
Memory		Flash ROM	128Mbytes			
		SDRAM	128Mbytes			
MSR		ISO7811 Standard, 2/3 Track				
Display		4.3" (480 x 272) TFT Color LCD	128 x 96 Graphic LCD	128 x 64 Graphic LCD		
Printer		Printing Method	3" Thermal with Auto Cutter		2" Thermal	
		Printing Speed	Max, 200mm/sec		Max, 100mm/sec	
Modem		ISO Modem (56Kbps)				
Key Pad		23 Keys (Alpha/Num x 12, Function x 11)				
Smart Card	Smart Card	EMV Level I & II Certified, ISO7816				
	Sam Socket	4-SAM				
Interface	Serial	4 Ports	3 Ports			
	USB	1 Port (Type A)		-		
	Ethernet	1 Port				
	Telephone	2 Ports				
	Drawer	1 Port			-	
Dimensions	136(W) x 216(D) x 118(H)mm		137(W) x 217(D) x 111(H)mm		113.5(W) x 181(D) x 82.5(H)mm	
Power Supply	DC 24V/2.5A					

Specification_Signature Pad

Model		Signature Pad				
Picture						
	Submodel	SSP-1100	SSP-2000	SSP-3000		
	Main	CPU	32Bits ARM Processor (Cortex M3)	Cortex-M4		
Touch Panel		4-Wire Resistive touch screen				
Display		128 x 64 Graphic Touch LCD				
Key Pad		-	14 Keys (Alpha/Num x 11, Function x 3)	-		
MSR		-			ISO7811 Standard, 2/3 Track	
USB		Yes (Optional)				
Smart Card	Smart Card	-			EMV Level I & II Certified, ISO7816	
	Sam Socket	-			2-SAM	
Interface	Serial	RS-232 x 2 Ports				
	USB	Yes (Optional)				
Dimensions	75(W) x 131(D) x 29(H)mm		98(W) x 145(D) x 44(H)mm		120(W) x 106(D) x 59(H)mm	
Power Supply	DC 5V/2A					

Peripherals

SCD-150	SCD-100
15" Rear Display	9.7" Rear Display/9.7" Pole Display
	
QCD-L7	QCD-V202
7" Rear Display	VFD Rear Display
	
SPM-T15	QPD-ML700
15" Touch Monitor	7" Pole Display
	

Peripherals

QPD-ML162S

2 Lines Character LCD



QPD-LV202

VFD Pole Display



ELLIXBLUE

Bluetooth Dongle



H-Drawer

POS Drawer



G-Drawer

Large Size Drawer



Bplus-Drawer

Small Size Drawer






Specification_Peripherals

Picture			
Submodel		SCD-150	SPM-T15
TFT - LCD	Size of LCD Panel	15" LED LCD	
	Resolution	1024 x 768	
Touch Panel	Type	5W Resistive Touch (Optional) PCAP Touch (Optional)	5W Resistive Touch PCAP Touch (Optional)
	Transparency	–	81%
	Touch Life	–	36 Million Times
	OS	–	POSReady 7 Windows 7, 8.1, 10 Windows 10 IoT
Power	Type	–	60W External Adapter
	Input Voltage	–	AC 100V~240V, 50/60Hz
	Output Voltage Current	–	DC 12V/5A
Interface	Input Signal	Analog RGB	
	Video Input Signal Connector	D-SUB 15Pin VGA Type	
	OSD Control Function	–	
Enviroment	Regulations Approved	CE/FCC/RoHS	
	Temperature	0°C ~ 40°C	
	Humidity	10% ~ 80%	




Model		9.7" Rear Display	9.7" Pole Display
Picture			
Submodel		SCD-100	SCD-100 Pole Type
TFT - LCD	Size of LCD Panel	9.7" LED LCD	
	Resolution	1024 x 768	
Measurement	Display	246(W) x 197(D) x 115(H)mm	
	Stand	–	200(W) x 128(D) x 28(H)mm
	Height	–	450mm ~ 550mm
Interface	Input Signal	Analog RGB	
	Video Input Signal Connector	D-SUB 15Pin Cable	
Power	Input Voltage	12V/1A, 50/60Hz ± 3Hz	7.5V/2.5A, 50/60Hz ± 3Hz
Enviroment	Temperature	10°C ~ 40°C	
	Humidity	10% ~ 80%	




Specification_Peripherals

Model		7" Rear Display	7" Pole Display
Picture			
Submodel		QCD-L7	QPD-ML700
TFT -LCD	Size of LCD Panel	7" LCD	
	Resolution	800 x 480	
Interface	Serial	–	RS-232C (RJ45/D-SUB 9Pin)
	USB	–	USB (Virtual COM)
	Ethernet	–	10/100 base-T (Optional)
	Wi - Fi	–	IEEE 802.11b/g (Optional)
	VGA	D-SUB 15Pin Cable	–
Input Signal		Analog RGB	Serial/USB/Ethernet/Wi-Fi
Power	Type	–	External Adaptor
	Output Voltage/Current	–	DC 7.5V/2.5A
Storage	NAND Flash	–	512MByte
Image	Format	–	ECR : JPEG, BMP, PNG, TGA POS : JPEG, BMP, GIF, PNG, TGA
	Download	–	USB Memory, PC (Serial, USB, Ethernet, Wi - Fi)
Command	Mode	–	4 Type Windows Mode
	Type	–	ESC/POS
Other	Pivot Function	–	YES
	VESA	–	YES
	Utility	–	Image & F/W Download
	Driver	–	YES

Model		VFD Rear Display	VFD Pole Display	2 Lines Character LCD
Picture				
Submodel		QCD-V202	QPD-V202	QPD-ML1625
Display	Type	VFD		2 Lines Character LCD
	Font	–		Europe
	Format	20 Columns x 20 Lines		16 Columns x 2 Lines
Interface	Serial	RS-232C (RJ45)	RS-232C (RJ45/D-SUB 9Pin)	
	USB	–	USB (Virtual COM)	
Emulation		CD5220/ DSP800/ EPSON ESC / POS/ ADM788 / ADM787 / AEDEX / UTC-S / UTC-E / ICD2002		EPSON/STAR
Power	Output Voltage	DC 12V	DC 7V~12V	
	Consumption	4.5W (Max)		
Tilt Angle		0°C ~ 40°C		
Swivel Angle		–	350°	–

Specification_Peripherals

Model		CASH DRAWER			
Picture					
Submodel		H-Drawer	G-Drawer	Bplus-Drawer	
Color		White / Black			
Dimensions		420(W) x 400(D) x 112(H) mm	400(W) x 450(D) x 112(H) mm	325(W) x 420(D) x 95(H) mm	
Housing	Top Material	Steel			
	Bottom Material	Steel		Plastic	
Tray	Till Material	Steel	Steel	Plastic	
	Sliding Type	Plastic-Roller			
	Media Slot	2 Slots, Height : 10mm			
	Lock Key	2 Position ① On-Line ② Closed 3 Position (4 Function) Option ① On-Line ② Closed ③ Locked Open ④ Manual Open		3 Position Key Option ① On-Line ② Closed ③ Manual Open	
Bill Coin	Bill Till Size (mm)	Width	72 (5B5C)	87 (4B8C) / 67 (5B5C)	89 (3B4C) / 67 (4B4C)
		Depth	180		
		Height	48	51 (4B8C) / 48 (5B5C)	45
	Coin Till Size (mm)	Width	71 (5B5C)	78 (4B8C) / 68 (5B5C)	62
		Depth	97 (5B5C)	67 (4B8C) / 98 (5B5C)	84
		Height	48 (5B5C)	39 (4B8C) / 48 (5B5C)	39
	Coin Box Separation	NO	YES (4B8C) / NO (5B5C)	YES	
	Coin Partition Separation	YES			
	Bill Partition Separation	YES			
	Lever Press	Standard	Plastic		
Option		Steel			
Option	Compulsory	YES			
	Latch	2 Latch			
Interface		RJ11			
Locking Lid		Yes (Optional)		-	
Power Input (Solenoid)		12V/24V	7V/12V/24V		
Life		1,000,000 Cycle		300,000 Cycle	
Weight (kg)		6.7		3.1	

Model	Bluetooth Dongle (ELLIXBLUE Series)		
Picture			
Submodel	BT-DG_F	BT-DG_M	BT-IF
Use	Master Device (POS, PC, ECR or Various Terminal Device)	Slave Device (Printer, Scanner, Scale or Various Preipheral Device)	Slave Device (ELLIX Printer)
Bluetooth Version	V2,0 + EDR Certification		
Frequency	Up to 18dBm Typical		
Rx. Sensitivity	-88 dBm Typical		
Coverage	Up to 100 Meters (Open Space)		
Antenna	Dongle Type : Chip Antenna (Gain : Max 1,5dBi) Interface Card Type : Cable Antenna (Gain : Max 2,0dBi)		
Power Supply	DC5V 80mA USB : USB BUS POWER RS-232C : D-SUB 9Pin DC 5V Adapter		
Profile	SPP (Serial Port Profile)		
Interface Support	RS-232C USB V1.1 (Virtual COM Profile)		
Flow Control	RTS / CTS		
Baud Rate	1,2 / 2,4 / 4,8 / 9,6 / 19,6 / 38,4 / 57,6 / 115,2 Kbps		



2018 @ Copyright Shin Heung Precision Co.,Ltd / Seoul Office

Flat C-911, Woolim Lion's Valley, Gasan Digital 1-Ro, 168, Geumcheon-Gu, Seoul 08507 Korea

TEL +82-2-2101-9623 **FAX** +82-2-2101-9690 **E-mail** sam4swebmaster@shc.co.kr **Web Page** www.sam4s.com **Youtube** www.youtube.com/SAM4SGlobal

All Features and specifications described and subject to change without notice.

