www.sam4s.com

Sam4s
PRODUCT CATALOG

Company Overview

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 knowledgeable human resources with more than 31 years of experience in the store automation field.

We now produce the most sophisticated and diverse products for 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.

What is SAM4S?

SMART
SAM4S always provides smart terminals with useful features

SAFE
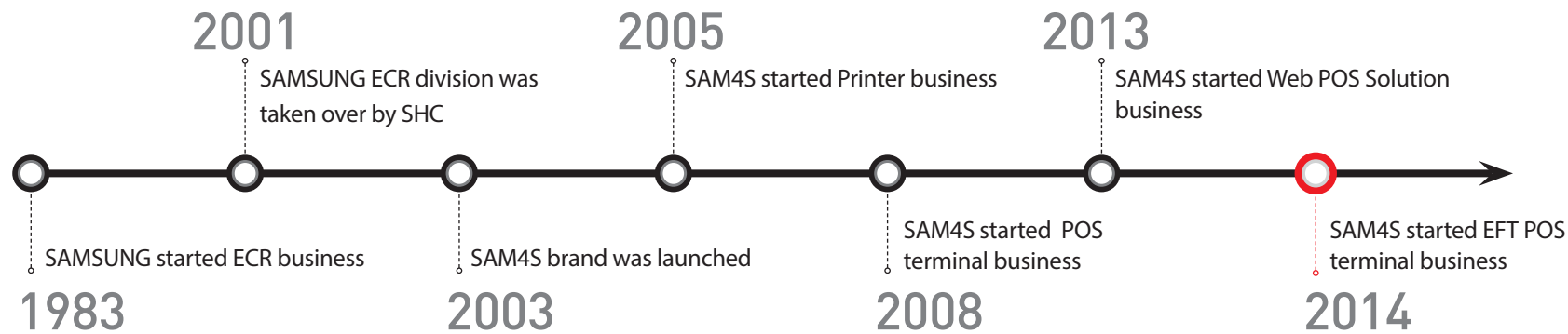SAM4S' reliable terminal makes sure that your assets are in safe hands

SILENT
SAM4S' silent terminal improves the ambiance of your shop

SPEEDY
SAM4S provides speedy return of investment

Timeline

2001 — SAMSUNG ECR division was taken over by SHC

2005 — SAM4S started Printer business

2013 — SAM4S started Web POS Solution business

1983 — SAMSUNG started ECR business

2003 — SAM4S brand was launched

2008 — SAM4S started POS terminal business

2014 — SAM4S started EFT POS terminal business

R&D Team

SAM4S has 31 years of development experience for store automation products. SAMSUNG ECR division was taken over by SHC in 2001, but the members of the R&D laboratory at that time are the core members of SAM4S R&D Lab now. The know-how of SAMSUNG ECR production was handed over to SAM4S.

Production Capability

SAM4S specializes in R&D and SAM4S's holding company, SHC specializes in production. SHC has manufactured continuously since 1968 and SHC has cooperated with SAMSUNG ECR since 1983. SHC has every facility for the development of SAM4S products and creates all of SAM4S products internally.

Quality Control and Service

Every SAM4S product has environment compliance testing before SAM4S starts mass production. SAM4S implements quality inspection to every single finished product. SAM4S Supplies all service parts from individual parts to multiple component assemblies for all their products. We supply whatever the customer needs.

General SA Equipment Supplier

SAM4S has been a specialized in general store automation equipment supply for many years. As the result, SAM4S has ECR, POS terminal, Android POS terminal, Receipt Printer, EFT POS terminal, Drawer, and various peripherals in the line-up. Now, SAM4S provides a one-stop supply service to SAM4S customers.

PC POS Terminal

Android POS Terminal

Tabby

ECR

PC POS TERMINAL

BEST

TITAN Series

Introduction

The TITAN Series high performance POS, is the the most powerful terminals in the SAM4S line-up. It is suitable for the most demanding POS applications, such as convenience stores, franchise specialty stores, hypermarkets and franchise food service.

Special Features

• Solid AL Die casting Frame Construction
• Industrial LED Display
• Upper I/O Interfaces Panel For Easier Control
• Built-in Power Adaptor
• Easy to Access Motherboard (TITAN-500 only)
• Waterproof Front Panel (True Flat only)
• PCAP Touch Option

| CPU | intel 1037U | intel Pentium | intel CORE i3/i5/i7 | Rear Display | CHAR VFD | 7" | 9.7" | 15" | Color | ■ | □ |

Solid AL Die casting Frame Construction

Upper I/O Interfaces Panel For Easier Control

Built-in Power Adaptor

Compatible with Various CPUs(TITAN-500 only)

Easy to Access Motherboard(TITAN-500 only)

BEST

SPT-4800 Series

Introduction

The SPT-4800 Series is designed to meet the needs of the hospitality industry, especially table service restaurants. Installation and maintenance is simplified with a tool-less design. Installation engineers can quickly install or replace popular POS options and peripherals.

Special Features

• Selectable CPU Options: Intel Celeron Mobile 1037U and Atom D2550
• Tool-less Design Provides Easy Installation and Maintenance
• VESA Wall Mount for Use as an Ordering Terminal
• Waterproof Front Panel (True Flat only)
• PCAP Touch Option

CPU	intel 1037U	intel D2550	Rear Display	CHAR VFD	7"	9.7"	15"	Color	■	□

True Flat Front Display

MSR & Dallas Key Combo Module

Tool-less Design

CFast Slot

Various Cabinet Colors
(Rear end of stand)

BEST

SPT-4700 Series

Introduction

The SPT-4700 Series is the first SAM4S model incorporating the ergonomic design of the MSR & Dallas Key Module for reducing wrist fatigue due to frequent credit card swipes.
Installation and maintenance is simplified with a tool-less design. Installation engineers can quickly install or replace popular POS options and peripherals.

Special Features

• Selectable CPU Options: Intel Celeron Mobile 1037U and Atom D2550
• Tool-less Design Provides Easy Installation and Maintenance
• VESA Wall Mount for Use as an Ordering Terminal

| CPU | intel 1037U | intel D2550 | Rear Display | CHAR VFD | 7" | 9.7" | 15" | Color | | |

Service Access for Replacing HDD

Ergonomic Design Of MSR Module

Tool-less Design

CFast Slot

Various Cabinet Colors (Rear end of stand)

CLASSIC

SPT-7000 Series

Introduction

The SPT-7000 Series is an All-in-One POS terminal with space-saving multi-functional integrated structure. Optional, integral receipt printer and bar code scanner makes this model very versatile. Suitable for convenience stores, specialty stores, clothing stores, fine dining restaurants, franchise restaurants, bars and nightclubs.

Special Features

- Selectable CPU Options: Intel Celeron Mobile 1037U and Atom D2550
- Tool-less Design Provides Easy Installation and Maintenance
- Waterproof Front Panel (True Flat Only)
- Various Internal Peripheral Options
- PCAP Touch Option

| CPU | intel 1037U | intel D2550 | Rear Display | CHAR VFD | 7" | 9.7" | 15" | Color | ■ | □ |

Stylish Curved Cabinet Design

3", 270mm/sec Built-in Printer

Built-in 2D Scanner and Dallas Key

Antenna Type Wi-Fi Module

Tool-less Design

CLASSIC

SPT-3700

Introduction

The SPT-3700 is a uniquely designed POS terminal featuring a built-in MSR. The built-in MSR is space efficient, so SPT-3700 can easily fit in small restaurants and retail shops with limited counter space.

Special Features

• Optimized Terminal for Intel Atom D2550 CPU
• Tool-less Design Provides Easy Installation and Maintenance
• Space Saving Design: Internal MSR and Wall Mount Kit for use as an Ordering Terminal

| CPU | intel D2550 | Rear Display | CHAR VFD | 7" | 9.7" | 15" | Color | | |

Various I/O Interfaces

Internal MSR

Low Hinge Position

Locking Hinge Structure

Various Rear Displays

BEST

SAP-4900

Introduction

The SAP-4900 is an All-in-One Android POS terminal with sturdy design and white/black cabinet. It has an ARM CORTEX-A9, 1GHz Quad Core based CPU, making it more powerful. The SAP-4900 will run many Apps compatible with Jelly Bean 4.3 OS.
It is ideal for franchise shops, small retail shops and restaurants.

Special Features

• Android Jelly Bean 4.3 OS
• Various I/O Interfaces (USB, SD Card, LAN, RS-232C), Wireless LAN (Wi-Fi, Bluetooth)
• Tool-less Design Provides Easy Installation and Maintenance
• Built-in Power Supply Adaptor
• PCAP Touch Option

| CPU | ARM Cortex-A9 | Rear Display | CHAR VFD | 9.7" | 15" | Color | ■ | □ |

Internal Wi-Fi & Bluetooth Module

Various I/O Interfaces

Various Rear Displays

Built-in Power Supply Adaptor

MSR & Dallas Key Combo Module

CLASSIC

SAP-4800II

Introduction

The SAP-4800II is an All-in-One Android POS terminal with simple design and white/black cabinet. It has an ARM CORTEX-A9, 1GHz Quad Core based CPU, making it more powerful. The SAP-4800II will run many Apps compatible with Jelly Bean 4.3 OS.
It is ideal for small retail shops, restaurants, or for use as a restaurant ordering terminal.

Special Features

• Android Jelly Bean 4.3 OS
• Supports 2 Drawers and 4 Serial Devices
• Tool-less Design Provides Easy Installation and Maintenance
• VESA Wall Mount for Use as an Ordering Terminal
• PCAP Touch Option

CPU	ARM Cortex-A9	Rear Display	CHAR VFD	Color		

Internal Wi-Fi & Bluetooth Module	Various I/O Interfaces	VFD Rear Display	Tool-less Design	MSR & Dallas Key Combo Module

CLASSIC

SAP-4700II

Introduction

The SAP-4700II is an Android-based POS terminal which incorporates the MSR & Dallas key module ergonomic design for reducing wrist fatigue due to frequent credit card swipes. This model is ideal for running Android applications in environments with frequent credit card swipes, such as cafeterias or food courts.

Special Features

- Android Jelly Bean 4.3 OS
- Supports 2 Drawers and 4 Serial Devices
- Ergonomic MSR Design Reduces Wrist Fatigue
- VESA Wall Mount for Use as an Ordering Terminal

CPU	Rear Display	Color
ARM Cortex-A9	CHAR VFD	◼ ◻

Internal Wi-Fi & Bluetooth Module

Various I/O Interfaces

VFD Rear Display

Tool-less Design

Ergonomic Design Of MSR Module

CLASSIC

SAP-500 Series

Introduction

The SAP-500 Series is an ECR-style All-in-One Android POS terminal. It features a 9.7" touch display for operating the POS solution by touch. It provides a large keyboard to support frequently used PLUs, plus a built-in printer and cash drawer. The SAP-500 Series will run many Apps compatible with Jelly Bean 4.3 OS. The SAP-500 Series is a powerful platform for cafeteria, food court or convenience store applications.

Special Features

• Android Jelly Bean 4.3 OS
• Large Keyboard for PLU Shortcut Keys
• Ports to Connect Scanner or Remote Printer
• Cost Saving POS Bundle

Color

9.7" Touch Display

3" Thermal Printer

Built-in MSR

Large Size Drawer

Built-in 16 Character x 2 Line LCD

NEW

TAB-15 RETAIL HOSPITALITY
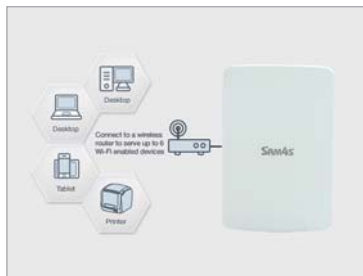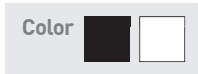
Introduction

TAB-15 is a compact Web POS solution with a retail/hospitality POS software application. Up to 6 smart devices can access Tab-15 via a Web browser. Compact economic design saves on space and makes your store more simple and smart. Tabby solution services POS software through the Web browser for an easy and convenient operation.

Special Features

• Up to 6 Smart Devices can access Tabby through the Web browser
• 4 Serial ports can connect Various Peripherals
• Compact Design
• Program Maintenance is Simple and Intuitive
• Access Reports Remotely or at the Store

※ PC tablet is not included. Please purchase PC tablet separately.

Color

Connect Up to 6 Wireless devices   Connect Up to 4 Peripherals   Simple and Smart User Interface   Easy Setup   Powerful Reporting

CLASSIC

TAB-10 RETAIL HOSPITALITY

Introduction

Tabby is a Web server integrated in the SAM4S ELLIX 40II POS printer with a retail/hospitality POS software application. Up to 6 smart devices can access Tabby via a Web browser. Tabby services POS Software is access through the web browser of each device. Tabby with a smart device can be used as a POS terminal or ordering terminal instead of existing stationary POS terminal.

Special Features

• Up to 6 Smart Devices can access Tabby through the Web browser
• Tabby solution services POS software to each of the accessed Smart Devices
• Program Maintenance is Simple and Intuitive
• Access Reports Remotely or at the Store

※ PC tablet is not included. Please purchase PC tablet separately.

Color

Available Using Windows, Mac or Android Platform

Connect Up to 2 Peripherals

Simple and Smart User Interface

**Easy Setup**

Powerful Reporting

BEST

NR-500 Series

Introduction

New to the SAM4S ECR line-up, the NR-500 Series is the most strongly featured low and middle end SAM4S ECR. It provides an advanced user interface, large data memory size, I/O interfaces, and an LCD front display. This model is designed to lead the basic-ECR line-up in non-fiscal ECR markets.

Special Features

• Available in both Retail and Hospitality Versions
• User Friendly Interface for Easy Operation
• Supports Non-Alphabetic Languages
• Electronic Journal Data keeping using Micro SD Card inside
• Easy Data backup, Restore and Report polling using SD, USB, PC
• Data Management and Programming by Ethernet Based PC Utility (Back office)

Color

2 Line LCD
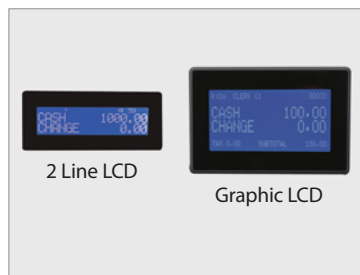
Graphic LCD

**Supports both
2 Line LCD, Graphic LCD**

Various I/O Interfaces

SD Card Slot

1st/2st Thermal Printer

**Raised Keyboard Available**

ECR

BEST

NR-300/400

NR-400

Introduction

The SAM4S NR-300/400 are new series of portable fiscal ECRs. The NR-300 is the basic model and the NR-400 is the graphic display version. Both models have the same features, but NR-400's large display can show more items, display larger fonts or support non-alphabetic languages.

Special Features

• Built-in Battery Insures Reliability where Power Conditions are Unstable
• User Friendly Interface for Easy Operation
• Electronic Journal Data keeping using Micro SD Card inside
• Easy Data backup, Restore and Report polling using SD, USB, PC
• Data Management and Programming by Ethernet Based PC Utility (Back office)

NR-300

Color
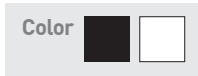
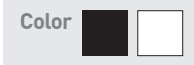| GPRS Modem | Various I/O Interfaces | SD Card Slot | 2"/3" Thermal Printer | 2 Line LCD(NR-300) Graphic LCD(NR-400) |

CLASSIC

ER-260EJ

Introduction

The ER-260EJ is the next generation model of popular ER-260. It provides more I/O interfaces, more communication interfaces, more data/fiscal memory and a more advanced user interface. The ER-260EJ is the recommended solution for entry level fiscal applications.

Special Features

• Available in both Retail and Hospitality versions
• User Friendly Interface for Easy Operation
• Electronic Journal Data keeping using Micro SD Card inside
• Easy Data backup, Restore and Report polling using SD, USB, PC
• Data Management and Programming by Ethernet Based PC Utility (Back office)

Color ■ □

GPRS Modem

Various I/O Interfaces

SD Card Slot

1st Thermal Printer

Flat Keyboard Available

CLASSIC

ER-230EJ

Introduction

The ER-230EJ is a portable ECR. This model provides more I/O interfaces, larger data/fiscal memory size and a more advanced user interface than the prior model (ER-230).
It features a GPRS modem, required by many countries adapting new fiscal regulations.
An ideal solution for countries with fiscal requirements.

Special Features

• Built-in Battery Insures Reliability where Power Conditions are Unstable
• User Friendly Interface for Easy Operation
• Electronic Journal Data keeping using Micro SD Card inside
• Easy Data backup, Restore and Report polling using SD, USB, PC
• Data Management and Programming by Ethernet Based PC Utility (Back office)

Color

GPRS Modem

Various I/O Interfaces

SD Card Slot

1st Thermal Printer

Laser Keyboard Available

BEST

GIANT-100

Introduction

GIANT-100 is a stylish 3" thermal printer, with small and distinctive design compared to other receipt printers. The GIANT-100 unique look and style will blend into any interior design and is ideal where space is limited. The GIANT-100 "Flagship" model points the direction which other receipt printers will follow in the future.

Special Features

• Faster speed 250mm/sec
• Compact Size
• Various Interfaces USB + Serial(25Pin), USB + Serial(9Pin + RJ-45),
   USB + Wi-Fi, USB + Serial + Ethernet(3-Combo)
• Durable Ceramic Auto Cutter
• Jam Free Design
• Tool-less Design
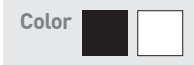
Color

Ceramic Auto Cutter

Various Interfaces

Jam Free Design

Tool-less Design

Black (Matt, High-glossy), White Color

BEST

ELLIX40II/45II

ELLIX40II

Introduction

The ELLIX40II/45II are the high-end SAM4S receipt printer models. They feature 270mm/sec printing speed, LCD displays, and support replaceable 3-combo interfaces. In addition they support both 2" and 3" paper, and 2-Color Paper. The ELLIX40II and ELLIX45II are differentiated by their functional and elegant design.

Special Features

• Faster speed 270mm/sec
• Tool-less Design
• Various Interfaces USB Only, USB + Serial(25Pin), USB + Serial(9Pin + RJ-45), USB + Parallel,
  USB + Bluetooth, USB + Wi-Fi, USB + Serial + Ethernet(3-Combo)

ELLIX45II

Color

Tool-less Design

LCD Display

Various Interfaces

Jam Free Design

Black and White

BEST

ELLIX30II/35II

Introduction

The ELLIX30II/35II models are the value leaders in SAM4S receipt printer line-up. They feature 220mm/sec printing speed and support a built-in combo interface. In addition they support both 2" and 3" paper, and 2-Color paper. The ELLIX30II and ELLIX35II are differentiated by their functional and elegant design.

Special Features

- Faster speed 220mm/sec
- Tool-less Design
- Various Interfaces USB + Serial(25Pin), USB + Serial(9Pin + RJ-45), USB + Parallel, USB + Wi-Fi, USB + Serial + Ethernet(3-Combo)
- Available Using 2" or 3" Paper

ELLIX35II

ELLIX30II

Color

Tool-less Design

Easy Replacement of OEM Logo

Various Interfaces

Jam Free Design

Black and White

PRINTER

NEW

ELLIX40F

Introduction

The ELLIX40F is a fiscal receipt printer model providing the main advantages of ELLIX40II printer. Case sealing provides security from external access. Also, it keeps data security by providing RSA/DSA cryptographic algorithms through the exclusive encryption chip. It is suitable for fiscal market.

Special Features

• Faster speed 270mm/sec
• USB('B' type) x 1 + Serial(RJ-45) x 1 + Ethernet(10/100Mbps) x 1
• Built-in Power Supply

Color

Case Sealing

Easy Replacement of OEM Logo

Various Interfaces

Built-In Power Supply

Paper Near-end Sensor

CLASSIC

Printer Mechanism

Introduction

SAM4S has produced ECR printer mechanisms since 1994 and receipt printer mechanisms since 1998. SAM4S know-how and expertise has been featured in SAM4S' ECRs and printers for over 20 years. SAM4S guarantees satisfaction to all its printer mechanism customers.

STM-280H

STM-280HN

STM-280V

STM-280VN

STM-281VN

NEW

SHC-350

Introduction

The SHC-350 is an EFT POS terminal with 3" internal printer. The SHC-350 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. It is the smartest EFT POS terminal in the market.

Special Features

• Colorful LCD Display
• Various Interfaces: USB ('A'Type), Serial Ports (4), Ethernet, Telephone Ports (2) and Drawer
• Faster speed 200mm/sec
• Large Internal Memory Size (128Mbyte)
• Jam Free Design

Color

| 4.3" Color LCD | Various Interfaces | MS Card Reader | IC Card Reader | Signature Pad |

BEST

SHC-210/310

SHC-210

Introduction

The SHC-210/310 are EFT POS terminal devices with internal printers. The SHC-210 features a 2" Printer; the SHC-310 features a 3" Printer. The terminals are distinguished by their extremely compact size-the smallest of printing EFT POS devices in the market.

Special Features

• Compact Size
• Various Interfaces: USB ('A' Type), Serial Ports (3), Ethernet, Telephone and Drawer
• Faster speed 200mm/sec (SHC-310), 100mm/sec (SHC-210)
• Large Internal Memory Size
• Jam Free Design

SHC-310

Color

| Tool-less Design | Various Interfaces | MS Card Reader | IC Card Reader | Signature Pad |

PERIPHERALS

QCD-P15/N15

15" Rear Display

SCD-100

9.7" Rear Display

QCD-L7

7" Rear Display

QCD-V202

VFD Rear Display

SPM-T15

15" Touch Monitor

SCD-100

9.7" Pole Display

PERIPHERALS

QPD-ML700

7" Pole Display

QPD-ML162S

2Line Character LCD

QPD-LV202

VFD Pole Display

SSP-1100

Signature Pad For EFT POS Terminal

SSP-1000

Signature Pad For EFT POS Terminal

ELLIXBLUE

Bluetooth Dongle

PERIPHERALS

TS-AB10/SB10

Tablet Stand for i-Pad / Galaxy Tab

H-Drawer

POS Drawer

G-Drawer

Larger Size Drawer

Bplus-Drawer

Small Size Drawer

Specification – PC POS Terminal

Model		TITAN Series		SPT-4800 Series		SPT-4700 Series		SPT-7000 Series		SPT-3700
Picture										
Submodel		TITAN-100	TITAN-500	SPT-4800	SPT-4840	SPT-4700	SPT-4740	SPT-7000	SPT-7040	SPT-3700
System	CPU	Intel Celeron Mobile 1037U(1.8GHz)	Intel 3rd gen. Celeron, Pentium, Core-i3/i5/i7	Intel ATOM D2550 1.86GHz	Intel Celeron Mobile 1037U(1.8GHz)	Intel ATOM D2550 1.86GHz	Intel Celeron Mobile 1037U(1.8GHz)	Intel ATOM D2550 1.86GHz	Intel Celeron Mobile 1037U(1.8GHz)	Intel ATOM D2550 1.86GHz
	Storage	320GB HDD&SSD(32GB/64GB), mSATA(32GB/64GB)		320GB HDD&SSD (32GB/64GB)	320GB HDD&SSD (32GB/64GB), mSATA(32GB/64GB)	320GB HDD&SSD (32GB/64GB)	320GB HDD&SSD (32GB/64GB), mSATA(32GB/64GB)	320GB HDD&SSD (32GB/64GB) 2 x Storage Bay Support	320GB HDD&SSD (32GB/64GB), mSATA(32GB/64GB) 2 x Storage Bay Support	320GB HDD
	RAM	DDR III 2Slots (Up to 16GB)		DDR III 2Slots (Up to 4GB)	DDR III 2Slots (Up to 16GB)	DDR III 2Slots (Up to 4GB)	DDR III 2Slots (Up to 16GB)	DDR III 2Slots (Up to 4GB)	DDR III 2Slots (Up to 16GB)	DDR III 2Slots (Up to 4GB)
Display	Size	15" LED LCD (1024 x 768)		15" LED LCD (1024 x 768)		15" LED LCD (1024 x 768)		15" LED LCD (1024 x 768)		15" LED LCD (1024 x 768)
	Input	5W Resistive (Flat Resistive Touch Option) (PCAP Touch Option)		5W Resistive (Flat Resistive Touch Option) (PCAP Touch Option)		5W Resistive Touch		5W Resistive (Flat Resistive Touch Option) (PCAP Touch Option)		5W Resistive Touch
I/O	Serial	4 Ports (RI/5V/12V BIOS Selectable)		4 Ports (RI/5V/12V BIOS Selectable)		4 Ports		4 Ports (RI/5V/12V BIOS Selectable)		4 Ports (RI/5V/12V BIOS Selectable)
	Parallel	1 Port		1 Port		1 Port		1 Port		1 Port
	USB	6 Ports		6 Ports		6 Ports		6 Ports		6 Ports
	PS/2	-		-		-		-		-
	Ethernet	1 Port		1 Port		1 Port		1 Port		1 Port
	VGA	1 Port		1 Port		1 Port		1 Port		1 Port
	Drawer	1 Port/2 CH (12V/24V Selectable)		1 Port/2 CH (12V/24V Selectable)		1 Port/2 CH (12V/24V Selectable)		1 Port/2 CH (12V/24V Selectable)		1 Port/2 CH (12V/24V Selectable)
	Audio	3 Ports(Line in & out/Mic. in)	1 Ports(Line out)	3 Ports (Line in & out/Mic. in)		3 Ports (Line in & out/Mic. in)		3 Ports (Line in & out/Mic. in)		3 Ports (Line in & out/Mic. in)
Peripherals	Internal Printer	-		-		-		2"/3" Thermal, 270mm/sec.		-
	MSR	1/2/3 Track(USB) Support		1/2/3 Track(USB) Support		1/2/3 Track(USB) Support		1/2/3 Track(USB) Support		1/2/3 Track(USB) Support
	Scanner	-		-		-		1D Available	2D Available	-
	Fingerprint Reader	Optical USB Type		USB Type		USB Type		USB Type		-
	Dallas Key	Magnetic Type		USB Type		USB Type		USB Type		USB Type
	Customer Display	15" (1024 x 768)		15" (1024 x 768)		15" (1024 x 768)		15" (1024 x 768)		15" (1024 x 768)
		9.7" (1024 x 768) Flat Display		9.7" (1024 x 768) Flat Display		9.7" (1024 x 768) Flat Display		9.7" (1024 x 768) Flat Display		9.7" (1024 x 768) Flat Display
		7" (800 x 480) Wide		7" (800 x 480) Wide		7" (800 x 480) Wide		7" (800 x 480) Wide		7" (800 x 480) Wide
		20CH x 2Line VFD or 256 x 32 Graphic LCD		20CH x 2Line VFD or 256 x 32 Graphic LCD		20CH x 2Line VFD or 256 x 32 Graphic LCD		20CH x 2Line VFD or 256 x 32 Graphic LCD		20CH x 2Line VFD or 256 x 32 Graphic LCD
	Specific Option	VESA Wall Mount		VESA Wall Mount		VESA Wall Mount		-		Wall Mount Kit
		-		-		-		USB Dongle Wi-Fi		-
		CFast Card Support		CFast Card Support		CFast Card Support		CFast Card Support		CFast Card Support
	Expansion Slot	PCIe 1x Slot x 1 mini PCIe Slot x 1	mini PCIe Slot x 1	1 PCI Slot	1 PCIe 1 x Slot 1 mSATA Slot	PCI 1 Port Support	PCIe 1Port Support	PCI Slot x 1	PCIe 1x Slot x 1 mini PCIe Slot x 1	-
Software	OS	POSReady 2009&7, Win 8 Industry (Retail)		POS READY 2009&7	POS READY 2009&7, Win 8 Industry (Retail)	POS READY 2009&7	POS READY 2009&7, Win 8 Industry (Retail)	POS READY 2009&7	POS READY 2009&7, Win 8 Industry (Retail)	POS READY 2009&7
Power Supply		DC 12V/5A	DC 19V/7.89A	DC 12V/5A		DC 12V/5A		DC 12V/5A (Printer : DC 24V/2.5A)		DC 12V/5A
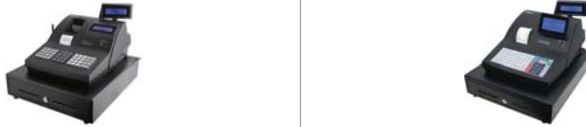
Specification – Android POS Terminal

Model		SAP-4900	SAP-4800II	SAP-4700II	SAP-500 Series
Picture					
Submodel		SAP-4900	SAP-4800II	SAP-4700II	SAP-530
System	CPU	ARM Cortex-A9 Quad Core 1.0Ghz	ARM Cortex-A9 Quad Core 1.0Ghz	ARM Cortex-A9 Quad Core 1.0Ghz	ARM Cortex-A9 Dual Core 1.0Ghz
	Storage	NAND FLASH(8GB)	NAND FLASH(8GB)	NAND FLASH(8GB)	NAND FLASH(8GB)
	RAM	DDR III 1GB	DDR III 1GB	DDR III 1GB	DDR III 1GB
Display	Size	15" LED LCD (1024 x 768)	15" LED LCD (1024 x 768)	15" LED LCD (1024 x 768)	9.7" LED LCD (1024 x 768)
	Input	5W Resistive (Flat Resistive Touch Option) (PCAP Touch Option)	5W Resistive (Flat Resistive Touch Option) (PCAP Touch Option)	5W Resistive Touch	5W Resistive Touch
Keyboard	Flat	-	-	-	160 Keys (Option)
	Raised				90 Keys
I/O	Serial	4 Ports (D-SUB 2 Ports, RJ-45 2 Ports)	4 Ports (D-SUB 2 Ports, RJ-45 2 Ports)	4 Port (D-SUB 2 Ports, RJ-45 2 Ports)	4 Port (D-SUB 2 Ports, RJ-45 2 Ports)
	Parallel	-	-	-	-
	USB	4 Ports	4 Ports	4 Ports	2 Ports
	PS/2	-	-	-	-
	Ethernet	1 Port	1 Port	1 Port	1 Port
	VGA	1 Port	1 Port	1 Port	-
	HDMI	1 Port	1 Port	1 Port	-
	Drawer	2 Ports/2 CH (12V/24V Selectable)	2 Ports/2 CH (12V/24V Selectable)	2 Ports/2 CH (12V/24V Selectable)	2 Ports/2 CH (24V Only)
	Audio	Internal Speaker(L/R:1.5W), 1 Audio Out Port	Internal Speaker(L/R: 1.5W), 1 Audio Out Port	Internal Speaker(L/R: 1.5W), 1 Audio Out Port	-
Peripherals	Internal Printer	-	-	-	3" Thermal, 100mm/Sec
	MSR	1/2/3 Track(USB) Support	1/2/3 Track(USB) Support	1/2/3 Track(USB) Support	1/2/3 Track Support
	Scanner	-	-	-	-
	Fingerprint Reader	-	-	-	-
	Dallas Key	USB Type	USB Type	USB Type	Yes
	Customer Display	15" (1024 x 768)	15" (1024 x 768)	15" (1024 x 768)	-
		9.7" (1024 x 768) Flat Display	9.7" (1024 x 768) Flat Display	9.7" (1024 x 768) Flat Display	-
		-	-	-	-
		20CH x 2Line VFD	20CH x 2Line VFD	20CH x 2Line VFD	16CH x 2Line LCD
	Specific Option	VESA Wall Mount	VESA Wall Mount	VESA Wall Mount	-
		Built-in Wi-Fi/Bluetooth	Built-in Wi-Fi/Bluetooth	Built-in Wi-Fi/Bluetooth	Built-in Wi-Fi/Bluetooth
		SD Card Slot	SD Card Slot	SD Card Slot	SD Card Slot
		-	-	-	-
Software	OS	ANDROID JellyBean 4.3	ANDROID JellyBean 4.3	ANDROID JellyBean 4.3	ANDROID JellyBean 4.3
Power Supply		DC 12V/5A	DC 12V/5A	DC 12V/5A	AC 100~240V/50~60Hz

Specification – Tabby

Model		TAB-15		TAB-10	
Picture					
Submodel		TAB-15R	TAB-15H	TAB-10R	TAB-10H
Type		Retail	Hospitality	Retail	Hospitality
Printer	Printing Method	-		3" Direct Thermal	
	Printing Speed	-		Max. 270 mm/sec (63 lines/sec)	
	Paper	-		80.0mm / 58.0mm(W) x max. Ø 83.0mm	
Interface		4 Serials / 1 Ethernet (10/100) / 1 Micro SD		2 Serials / 1 Ethernet (10/100) / 1 Micro SD	
PLU		10,000		10,000	
Department		100		100	
Group		100		100	
Operators		8		8	
Report	Financial	Daily X / Daily Z / Payment		Daily X / Daily Z / Payment	
	Sales / Items				
	Department / Group	Daily / Weekly / Monthly / Quarterly / Yearly / Ranged		Daily / Weekly / Monthly / Quarterly / Yearly / Ranged	
	Operators / Payments				
	Inventory	Status / Shortage / Out of Stock / Warning		Status / Shortage / Out of Stock / Warning	
EJ Management		View / Reprint		View / Reprint	
Payment		Cash / Check / Credit Card / Debit Card / Gift Card / Foregin Currency / Food Stamp		Cash / Check / Credit Card / Debit Card / Gift Card / Foregin Currency / Food Stamp	
Employee		Shift / Drawer / Attendance / Pay Rate / Employee Report / Sales Statistics / Authority Level / Hot Seat		Shift / Drawer / Attendance / Pay Rate / Employee Report / Sales Statistics / Authority Level / Hot Seat	
Tax		6 Tax / VAT / Add on / Tax table / Tax Shift / Exempt		6 Tax / VAT / Add on / Tax table / Tax Shift / Exempt	
Correct		Void / Cancel / Refund / Add / Subtract / Remove		Void / Cancel / Refund / Add / Subtract / Remove	
Ingredient / Recipe		-	Yes	-	Yes
Condiment		Yes	Yes	Yes	Yes
Client / Delivery		Yes	-	Yes	-
Promotions	Mix & match - Amount / %	Yes	Yes	Yes	Yes
	Multi buy / Fixed price	Yes	Yes	Yes	Yes
	Auto combo / Sweet deal	Yes	Yes	Yes	Yes
	Happy hour	-	Yes	-	Yes
Peripherals	Customer display / EFT Terminal	Yes	Yes	Yes	Yes
	Barcode scanner / Scale	Yes	Yes	Yes	Yes
	Kitchen printer / Kitchen video	Yes	Yes	Yes	Yes
Table Management	Floor layout	-	Yes	-	Yes
	Book / Release table	-	Yes	-	Yes
	Open / Close table	Yes	Yes	Yes	Yes
	Join table / # of guest	-	Yes	-	Yes
	Split / Join bill	-	Yes	-	Yes
Power Supply		DC 9V/2.5A		DC 24V/2.5A	

Specification – ECR

Model		NR-500 Series				NR-400	NR-300
Picture							
Submodel		NR-510(2-Line)	NR-520(2-Line)	NR-510	NR-520	NR-400	NR-300
Printer	Type	1st Thermal	2st Thermal	1st Thermal	2st Thermal	1st Thermal	1st Thermal
	Speed	70mm/sec(18 lines/sec)	70mm/sec(18 lines/sec)	70mm/sec(18 lines/sec)	70mm/sec(18 lines/sec)	70mm/sec(18 lines/sec)	70mm/sec(18 lines/sec)
	Paper Width	57.5mm	57.5mm (2EA)	57.5mm	57.5mm (2EA)	57.5mm / 80.0mm	57.5mm / 80.0mm
	Paper End Sensor	Yes		Yes		Yes	Yes
Display	Operator	16Char x 2Lines LCD with Blue B/L		192 x 64 Graphic LCD with Blue B/L		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 with Blue B/L		16Char x 2Lines LCD with Blue B/L	16Char x 2Lines LCD with Blue B/L
Keyboard	Flat	90 Keys (Option)		90 Keys (Option)		-	-
	Raised	48 Keys		48 Keys		35Keys	35 Keys
System	CPU	32bit(Rx-631, Renesas)		32bit(Rx-631,Renesas)		32bit(Rx-631,Renesas)	32bit(Rx-631,Renesas)
Memory	Program	2Mbyte FLASH (CPU Internal)		2Mbyte FLASH (CPU Internal)		2Mbyte Flash (CPU Internal)	2Mbyte Flash (CPU Internal)
	Data	4Mbit SRAM		4Mbit SRAM		4Mbit SRAM	4Mbit SRAM
	Ext. (Opt.)	4Mbit SRAM (Total 8Mbit)		4Mbit SRAM (Total 8Mbit)		4Mbit SRAM (Total 8Mbit)	4Mbit SRAM (Total 8Mbit)
	Data Storage	60 Days		60 Days		60 Days	60 Days
Fiscal Memory	EPROM	4Mbit OTPROM		4Mbit OTPROM		4Mbit OTPROM	4Mbit OTPROM
Interface	RS-232C	2 Ports (RJ-45 x 1, D-SUB 9Pin x 1)		2 Ports (RJ-45 x 1, D-SUB 9Pin x 1)		2 Ports (RJ-45 x 2)	2 Ports (RJ-45 x 2)
	USB	Host: 1 Port (Mass Storage) Device: 1 Port (Scanner/PC) (Host / Device Selectable)		Host: 1 Port (Mass Storage) Device: 1 Port (Scanner/PC) (Host / Device Selectable)		Host: 1 Port (Mass Storage) Device: 1 Port (Scanner/PC) (Host / Device Selectable)	Host: 1 Port (Mass Storage) Device: 1 Port (Scanner/PC) (Host / Device Selectable)
	Network	TCP/IP (10/100 Mbps)		TCP/IP (10/100 Mbps)		TCP/IP (10/100 Mbps)	TCP/IP (10/100 Mbps)
	GPRS Modem	Built-in		Built-in		Built-in	Built-in
Drawer	Type	Small/Large Available		Small/Large Available		-	-
	Port	1 Port		1 Port		1 Port, RJ-11(24V)	1 Port, RJ-11(24V)
Peripherals		Operator Key, Scanner(Serial/USB), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, SD Card(2 Slots (SDHC Compatible)(1-Internal, 1-External))		Operator Key, Scanner(Serial/USB), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, SD Card(2 Slots (SDHC Compatible)(1-Internal, 1-External))		Scanner(Serial/USB), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, SD Card(2 Slots (SDHC Compatible) (1-Internal, 1-External))	Scanner(Serial/USB), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, SD Card(2 Slots (SDHC Compatible) (1-Internal, 1-External))
S/W	Keyboard Departments	12 / 60		12 / 60		4 (MAX. 8 DEPT with Shift Key)	4 (MAX. 8 DEPT with Shift Key)
	PLU's	1000(Max.8000)		1000(Max.8000)		1000(Max.8000)	1000(Max.8000)
	Group	20(Max.99)		20(Max.99)		20(Max.99)	20(Max.99)
	Clerk	10(Max.99)		10(Max.99)		10(Max.99)	10(Max.99)
	Tax	VAT, ADD ON, TAX TABLE		VAT, ADD ON, TAX TABLE		VAT, ADD ON, TAX TABLE	VAT, ADD ON, TAX TABLE
	Electronic Journal	Yes (SD Card)		Yes (SD Card)		Yes (SD Card)	Yes (SD Card)
	Euro Currency Conversion	Yes		Yes		Yes	Yes
	Graphics Logo	Yes		Yes		Yes	Yes
	Daily and Periodic Reporting	Yes		Yes		Yes	Yes
	Table Management	Yes		Yes		-	-
	PLU Descriptors Size	24		24		24	24
	F/W Update	PC/SD Card		PC/SD Card		PC/SD Card	PC/SD Card
	PC Utility	Ethernet/Serial/USB		Ethernet/Serial/USB		Ethernet/Serial/USB	Ethernet/Serial/USB

Specification – ECR

Model		ER-260EJ	ER-230EJ	ER-280		ER-180	
Picture							
Submodel		ER-260EJ	ER-230EJ	ER-280	ER-285	ER-180	ER-180T
Printer	Type	1st Thermal	1st Thermal	1st / 2st Thermal		1st Fly Wheel	1st Thermal
	Speed	70mm/sec(18 lines/sec)	70mm/sec(18 lines/sec)	50mm/sec(13 lines/sec)		2.2 lines/sec	40mm/sec(10 lines/sec)
	Paper Width	57.5mm	57.5mm	57.5mm (2EA)		57.5mm	
	Paper End Sensor	Yes	Yes	Yes		No	Yes
Display	Operator	16Char x 2Lines LCD with Blue B/L	16Char x 2Lines LCD with Blue B/L	16Char x 2Lines LCD with Blue B/L		8 Digits LED	
	Customer	16Char x 2Lines LCD	16Char x 2Lines LCD	10 Digits VFD (Option)		(Opt.) 8 Digits LED	
Keyboard	Flat	49 Keys (Option)	-	49 Keys	-	-	
	Raised	49 Keys	40 Keys with Cap	-	49 Keys	48 Keys	
System	CPU	32bit(Rx-631, Renesas)	32bit(Rx-631, Renesas)	16bit(M30800SFP, Renesas)		8bit(R5F21248, Renesas)	16bit(M3030RF,Renesas)
Memory	Program	2Mbyte Flash (CPU Internal)	2Mbyte Flash (CPU Internal)	Flash 8Mbit or ERPOM 4Mbit		Flash 64Kbyte	Flash 128Kbyte
	Data	4Mbit SRAM	4Mbit SRAM	4Mbit SRAM		3Kbyte SRAM	5Kbyte SRAM + 1Mbit
	Ext. (Opt.)	4Mbit SRAM (Total 8Mbit)	4Mbit SRAM (Total 8Mbit)	4Mbit SRAM (Total 8Mbit)		-	
	Data Storage	60 Days	60 Days	60 Days		1 Year(Non-Rechargeable)	90 Days
Fiscal Memory	EPROM	4Mbit OTPROM	4Mbit OTPROM	1 or 4Mbit EPROM		-	
Interface	RS-232C	2 Ports (RJ-45 x 2)	2 Ports (RJ-45 x 2)	3 Ports		-	
	USB	Host: 1 Port (Mass Storage) Device: 1 Port (Scanner/PC) (Host / Device Selectable)	Host: 1 Port (Mass Storage) Device: 1 Port (Scanner/PC) (Host / Device Selectable)	1 Port		-	
	Network	Ethernet (10/100/1000 Mbps)	TCP/IP (10/100 Mbps)	-		-	
	GPRS Modem	Built-in (Option)	Built-in	-		-	
Drawer	Type	Small/Large Available	-	3B4C, 4B4C, 5B5C, 4B8C		3B4C, 4B4C	
	Port	1 Port	1 Port, RJ-11(24V)	1 Port		1 Port	
Peripherals		Operator Key, Scanner(Serial/USB), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, SD Card(2 Slots (SDHC Compatible)(1-Internal, 1-External))	Scanner(Serial/USB), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, SD Card(2 Slots (SDHC Compatible) (1-Internal, 1-External))	MSR, Operator Key, Scanner(Serial), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, KV, SD Card(1 Slot)		Operator Key	
S/W	Keyboard Departments	15	12	15		16	
	PLU's	1000(Max.8000)	1000(Max.8000)	200(Max. 10,000)		100	500
	Group	20(Max.99)	20(Max.99)	20(Max.99)		-	
	Clerk	10(Max.99)	10(Max.99)	15(Max.99)		-	
	Tax	VAT, ADD ON, TAX TABLE	VAT, ADD ON, TAX TABLE	VAT, ADD ON, TAX TABLE		4	
	Electronic Journal	Yes (SD Card)	Yes (SD Card)	Yes		-	Yes
	Euro Currency Conversion	Yes	Yes	Yes		Yes	
	Graphics Logo	Yes	Yes	Yes		-	
	Daily and Periodic Reporting	Yes	Yes	Yes		Yes	
	Table Management	Yes	-	Yes		-	
	PLU Descriptors Size	24	24	18		12	
	F/W Update	PC/SD Card	PC/SD Card	PC/SD Card		PC	
	PC Utility	Ethernet/Serial/USB	Ethernet/Serial/USB	Serial/USB		-	

Specification – ECR

Model		SPS-500		SPS-300		ER-900	
Picture							
Submodel		SPS-520	SPS-530	SPS-320/SPS-325	SPS-340/SPS-345	ER-920/ER-925	ER-940/ER-945
Printer	Type	2st Thermal	1st Thermal	1st Thermal	2st Thermal	1st Thermal	2st Thermal
	Speed	80mm/sec (21.3 lines/sec)	100mm/sec (26.7 lines/sec)	85mm/sec (22 lines/sec)		85mm/sec (22 lines/sec)	
	Paper Width	57.5mm	80.0mm	57.5mm		57.5mm	
	Paper End Sensor	Yes		Yes		Yes	
Display	Operator	7" TFT WVGA Touch 800 x 480		192 x 64 Graphic LCD with Blue B/L		16Char x 2Lines LCD with Blue B/L	
	Customer	16Char x 2Lines LCD		16Char x 2Lines LCD with Blue B/L		16Char x 2Lines LCD with Blue B/L	
Keyboard	Flat	160 Keys (Option)		SPS-320: 1st/150 Keys SPS-325: 1st/63 or 91 Keys	SPS-340: 2st/150 Keys SPS-345: 2st/63 or 91 Keys	ER-920: 1st/150 Keys ER-925: 1st/63 or 91 Keys	ER-940: 2st/150 Keys ER-945: 2st/63 or 91 Keys
	Raised	90 Keys		63/91 Keys		63/91 Keys	
System	CPU	ARM9(S3C2440,SAMSUNG)		ARM7(LPC2470,NXP)		ARM7(LPC2470,NXP)	
Memory	Program	1024Bit Flash		16Mbit Flash		16Mbit Flash	
	Data	512Mbit SRAM		4Mbit SRAM		4Mbit SRAM	
	Ext. (Opt.)	48Mbit SRAM		12Mbit SRAM		12Mbit SRAM	
	Data Storage	60 Days		90 Days		90 Days	
Fiscal Memory	EPROM	-		1Mbit/2Mbit		1Mbit/2Mbit	
Interface	RS-232C	4 Ports		3 Ports		3 Ports	
	USB	2 Port (USB 1.1)		1 Port (PC)		1 Port (PC)	
	Network	Ethernet 10/100Mbps(Max. 32sets)		IRC 1 Port(Max. 16 sets)		-	
	GPRS Modem	-		-		-	
Drawer	Type	5B5C, 4B8C		5B5C, 4B8C		5B5C, 4B8C	
	Port	3 Ports		2 Ports		2 Ports	
Peripherals		MSR(SPS-520 only), Operator Key, Scanner(Serial/USB), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, SD Card(2 Slots (SDHC Compatible)(1-Internal, 1-External)), PC Keyboard		MSR, Operator Key, Scanner(Serial), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, KV, SD Card(1 Slot)		MSR, Operator Key, Scanner(Serial), Remote Printer, Slip Printer, Kitchen Printer, Scale, Pole, PC, EFT, KV, SD Card(1 Slot)	
S/W	Keyboard Departments	160		28/63/100		28/63/100	
	PLU's	65000		2,000(Max. 20,000)		2,000(Max. 20,000)	
	Group	99		20(Max. 99)		20(Max. 99)	
	Clerk	10(Max.99)		10(Max. 99)		15(Max. 99)	
	Tax	VAT, ADD ON, TAX TABLE		VAT, ADD ON, TAX TABLE		VAT, ADD ON, TAX TABLE	
	Electronic Journal	Yes		Yes		Yes	
	Euro Currency Conversion	Yes		Yes		Yes	
	Graphics Logo	Yes		Yes		Yes	
	Daily and Periodic Reporting	Yes		Yes		Yes	
	Table Management	Yes		Yes		Yes	
	PLU Descriptors Size	20		18		18	
	F/W Update	PC/SD Card/USB		PC/SD Card		PC/SD Card	
	PC Utility	Serial		Serial/USB		Serial/USB	

Specification – Printer

Model	GIANT-100	ELLIX45II	ELLIX40II	ELLIX42
Picture				
Printing Method		Thermal Line Printing	Thermal Line Printing	Thermal Line Printing	Thermal Line Printing
Resolution		180 dpi	180 dpi	180 dpi	203 dpi
Printing Speed	Mono Paper 80mm	Max. 250 mm/sec (59 lines/sec)	Max. 270 mm/sec (63 lines/sec)	Max. 270 mm/sec (63 lines/sec)	Max. 220 mm/sec (58 lines/sec)
	Mono Paper 58mm	150 mm/sec	150 mm/sec	150 mm/sec	150 mm/sec
	Two Color Paper	100 mm/sec	100 mm/sec	100 mm/sec	100 mm/sec
Paper	Loading	Drop-In Type	Drop-In Type	Drop-In Type	Drop-In Type
	Width	80.0mm / 58.0mm	80.0mm / 58.0mm	80.0mm / 58.0mm	80.0mm / 58.0mm
	Diameter	Max. Ø 83.0mm	Max. Ø 83.0mm	Max. Ø 83.0mm	Max. Ø 83.0mm
Memory	PGM Memory	2Mbyte	10Mbyte	10Mbyte	10Mbyte
	DATA Memory	8Mbyte	8Mbyte	8Mbyte	8Mbyte
	DATA Buffer	64Kbyte	64Kbyte	64Kbyte	64Kbyte
Reliability	Mechanism (MCBF)	70,000,000 Line	70,000,000 Line	70,000,000 Line	70,000,000 Line
	TPH	1×10^8 Pulses / 150 Km	1×10^8 Pulses / 150Km	1×10^8 Pulses / 150 Km	1×10^8 Pulses / 150Km
	Auto Cutter	1,500,000 Cut	1,500,000 Cut	1,500,000 Cut	1,500,000 Cut
Drawer Port		2 Ports (+24V)	2 Ports (+24V)	2 Ports (+24V)	2 Ports (+24V)
Barcode		UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93 Code 128, ITF, CODABAR, PDF417, QRCode	UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93, Code 128, ITF, CODABAR, PDF417, QRCode	UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93 Code 128, ITF, CODABAR, PDF417, QRCode	UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93 Code 128, ITF, CODABAR, PDF417, QRCode
OS		WEPOS, POSReady2009, Windows XP Pro, Windows Vista, Windows7, POSReady7, Windows8, Industry 8, Linux, Mac, Android	WEPOS, POSReady2009, Windows XP Pro, Windows Vista, Windows7, POSReady7, Windows8, Industry 8, Linux, Mac, Android	WEPOS, POSReady2009, Windows XP Pro, Windows Vista, Windows7, POSReady7, Windows8, Industry 8, Linux, Mac, Android	WEPOS, POSReady2009, Windows XP Pro, Windows Vista, Windows7, POSReady7, Windows8, Industry 8, Linux, Mac, Android
Driver		Windows, OPOS, CUPS/JPOS(Linux & Mac), Android SDK	Windows, OPOS, CUPS/JPOS(Linux & Mac), Android SDK	Windows, OPOS, CUPS/JPOS(Linux & Mac), Android SDK	Windows, OPOS, CUPS/JPOS(Linux & Mac), Android SDK
Interface		USB + Serial(25Pin), USB + Serial(9Pin + RJ-45), USB + Wi-Fi, USB + Serial + Ethernet(3-Combo)	USB Only, USB + Serial(25Pin), USB + Serial(9Pin + RJ-45), USB + Parallel, USB + Bluetooth, USB + Wi-Fi, USB + Serial + Ethernet(3-Combo)	USB Only, USB + Serial(25Pin), USB + Serial(9Pin + RJ-45), USB + Parallel, USB + Bluetooth, USB + Wi-Fi, USB + Serial + Ethernet(3-Combo)	USB Only, USB + Serial(25Pin), USB + Serial(9Pin + RJ-45), USB + Parallel, USB + Bluetooth, USB + Wi-Fi, USB + Serial + Ethernet(3-Combo)
Dimension (with Foot Rubber)		131(W) x 155(D) x 133(H) mm	144(W) x 199(D) x 138(H) mm	144(W) x 195(D) x 137(H) mm	144(W) x 195(D) x 137(H) mm
Weight		0.9 Kg	2.0 Kg	2.0 Kg	2.0 Kg
Color		Black(Matt, High-glossy), White	Black, White	Black, White	Black, White
Emulation		EPSON, STAR	EPSON, STAR	EPSON, STAR	EPSON, STAR
Option	LCD Display	-	Yes	Yes	Yes
	Paper Near-end Sensor	Yes (Only Horizontal)	Default	Default	Default
	Kitchen Bell	Yes	Yes	Yes	Yes
	Wall Mount Kit	Default	Yes	Yes	Yes
	Splash Cover	Yes	Yes	Yes	Yes
	Paper Separator (58mm)	Default	Yes	Yes	Yes
Power Supply		DC 24V/2.5A	DC 24V/2.5A	DC 24V/2.5A	DC 24V/2.5A

Specification – Printer

Model		ELLIX35II	ELLIX30II	ELLIX32	ELLIX40F
Picture					
Printing Method		Thermal Line Printing	Thermal Line Printing	Thermal Line Printing	Thermal Line Printing
Resolution		180 dpi	180 dpi	203 dpi	180 dpi
Printing Speed	Mono Paper 80mm	Max. 220 mm/sec (52 lines/sec)	Max. 220 mm/sec (52 lines/sec)	Max. 180 mm/sec (48 lines/sec)	Max. 270 mm/sec (63 lines/sec)
	Mono Paper 58mm	150 mm/sec	150 mm/sec	150 mm/sec	150 mm/sec
	Two Color Paper	100 mm/sec	100 mm/sec	100 mm/sec	100 mm/sec
Paper	Loading	Drop-In Type	Drop-In Type	Drop-In Type	Drop-In Type
	Width	80.0mm / 58.0mm	80.0mm / 58.0mm	80.0mm / 58.0mm	80.0mm / 58.0mm
	Diameter	Max. Ø 83.0mm	Max. Ø 83.0mm	Max. Ø 83.0mm	Max. Ø 83.0mm
Memory	PGM Memory	2Mbyte	2Mbyte	2Mbyte	10Mbyte(Printer) / 2Mbyte(Fiscal)
	DATA Memory	8Mbyte	8Mbyte	8Mbyte	8Mbyte(Printer) / 1Mbyte(Fiscal)
	DATA Buffer	64Kbyte	64Kbyte	64Kbyte	64Kbyte
	Fiscal Memory	-	-	-	512KByte(OPTROM) or 16Mbyte(Serial Flash)
	E/J Memory	-	-	-	Micro SD 4Gbyte
Reliability	Mechanism (MCBF)	70,000,000 Line	70,000,000 Line	70,000,000 Line	70,000,000 Line
	TPH	1×10^8 Pulses / 150Km	1×10^8 Pulses / 150 Km	1×10^8 Pulses / 150Km	1×10^8 Pulses / 150 Km
	Auto Cutter	1,500,000 Cut	1,500,000 Cut	1,500,000 Cut	1,500,000 Cut
Drawer Port		2 Ports (+24V)	2 Ports (+24V)	2 Ports (+24V)	2 Ports (+24V)
Barcode		UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93 Code 128, ITF, CODABAR, PDF417, QRCode	UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93 Code 128, ITF, CODABAR, PDF417, QRCode	UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93 Code 128, ITF, CODABAR, PDF417, QRCode	UPC-A, UPC-E, EAN8, EAN13, Code 39, Code 93 Code 128, ITF, CODABAR, PDF417, QRCode
OS		WEPOS, POSReady2009, Windows XP Pro, Windows Vista, Windows7, POSReady7, Windows8, Industry 8, Linux, Mac, Android	WEPOS, POSReady2009, Windows XP Pro, Windows Vista, Windows7, POSReady7, Windows8, Industry 8, Linux, Mac, Android	WEPOS, POSReady2009, Windows XP Pro, Windows Vista, Windows7, POSReady7, Windows8, Industry 8, Linux, Mac, Android	WEPOS, POSReady2009, Windows XP Pro, Windows Vista, Windows7, POSReady7, Windows8, Industry 8, Linux, Mac, Android
Driver		Windows, OPOS, CUPS/JPOS(Linux & Mac), Android SDK	Windows, OPOS, CUPS/JPOS(Linux & Mac), Android SDK	Windows, OPOS, CUPS/JPOS(Linux & Mac), Android SDK	Windows, OPOS, CUPS/JPOS(Linux & Mac), Android SDK
Interface		USB + Serial(25Pin), USB + Serial(9Pin + RJ-45), USB + Parallel, USB + Wi-Fi, USB + Serial + Ethernet(3-Combo)	USB + Serial(25Pin), USB + Serial(9Pin + RJ-45), USB + Parallel, USB + Wi-Fi, USB + Serial + Ethernet(3-Combo)	USB + Serial(25Pin), USB + Serial(9Pin + RJ-45), USB + Parallel, USB + Wi-Fi, USB + Serial + Ethernet(3-Combo)	USB(B type) x1 + Serial(RJ-45) x1 + Ethernet(10/100Mbps) x1
Dimension (with Foot Rubber)		144(W) x 199(D) x 138(H) mm	144(W) x 195(D) x 137(H) mm	144(W) x 195(D) x 137(H) mm	144(W) x 224(D) x 182(H) mm
Weight		2.0 Kg	2.0 Kg	2.0 Kg	2.4 Kg
Color		Black, White	Black, White	Black, White	Black, White
Emulation		EPSON, STAR	EPSON, STAR	EPSON, STAR	EPSON, STAR
Option	LCD Display	-	-	-	Yes
	Paper Near-end Sensor	Yes	Yes	Yes	Default
	Kitchen Bell	Yes	Yes	Yes	Yes
	Wall Mount Kit	Yes	Yes	Yes	-
	Splash Cover	Yes	Yes	Yes	Yes
	Paper Separator (58mm)	Yes	Yes	Yes	Yes
Power Supply		DC 24V/2.5A	DC 24V/2.5A	DC 24V/2.5A	AC 100~240V/50~60Hz

Specification - Printer Mechanism

Model		STM-280				STM-281
Picture						
Submodel		STM-280H	STM-280HN	STM-280V	STM-280VN	STM-281VN
Printing Format	Dot Pitch	Vertical Direction 0.125 mm Horizental Direction 0.125 mm	Vertical Direction 0.125 mm Horizental Direction 0.125 mm	Vertical Direction 0.125 mm Horizental Direction 0.125 mm	Vertical Direction 0.125 mm Horizental Direction 0.125 mm	Vertical Direction 0.125 mm Horizental Direction 0.125 mm
	Character Structure	12(W) x 24(H) mm	12(W) x 24(H) mm	12(W) x 24(H) mm	12(W) x 24(H) mm	12(W) x 24(H) mm
	Character Size	1.5(W) x 3.0(H) mm	1.5(W) x 3.0(H) mm	1.5(W) x 3.0(H) mm	1.5(W) x 3.0(H) mm	1.5(W) x 3.0(H) mm
	Number of Columns	32	32	32	32	32
Printing Speed		Max. 100 mm/sec	Max. 100 mm/sec	Max. 100 mm/sec	Max. 100 mm/sec	Max. 100 mm/sec
Printing Direction		Unidirection with Friction Feed	Unidirection with Friction Feed	Unidirection with Friction Feed	Unidirection with Friction Feed	Unidirection with Friction Feed
Paper Feeding	Feeding Method	Friction Feed (Drop In Type)	Friction Feed (Drop In Type)	Friction Feed (Drop In Type)	Friction Feed (Drop In Type)	Friction Feed (Drop In Type)
	Minimum Feed Pitch	0.0625 mm	0.0625 mm	0.0625 mm	0.0625 mm	0.0625 mm
P/Supply Voltage	Power Supply Voltage	6~9.5V	6~9.5V	6~9.5V	6~9.5V	6~9.5V
	Circuit Input Voltage	3.3V, 5V DC±5%	3.3V, 5V DC±5%	3.3V, 5V DC±5%	3.3V, 5V DC±5%	3.3V, 5V DC±5%
TPH	Heat Element Density	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm
	Total Number of Head Elements	384 dots/line	384 dots/line	384 dots/line	384 dots/line	384 dots/line
	Heat Element Typical Resistance Value	176 Ω ± 4%	176 Ω ± 4%	176 Ω ± 4%	176 Ω ± 4%	176 Ω ± 4%
	Available Printing Width	48 mm	48 mm	48 mm	48 mm	48 mm
Line Feed Motor		PM Type Stepping Motor	PM Type Stepping Motor	PM Type Stepping Motor	PM Type Stepping Motor	PM Type Stepping Motor
Sensors	Head Temperature	Thermistor	Thermistor	Thermistor	Thermistor	Thermistor
	Paper End Sensor	Reflection Photo Sensor	Reflection Photo Sensor	Reflection Photo Sensor	Reflection Photo Sensor	Reflection Photo Sensor
	Printer Cover Open Sensor	Micro Switch	None	Micro Switch	None	None
Paper Feeding	Paper Type	Single-Ply Thermal Paper Roll	Single-Ply Thermal Paper Roll	Single-Ply Thermal Paper Roll	Single-Ply Thermal Paper Roll	Single-Ply Thermal Paper Roll
	Paper Size	57.5 mm ± 0.5 mm(W) x Max Ø70 mm or Less	57.5 mm ± 0.5 mm(W) x Max Ø70 mm or Less	57.5 mm ± 0.5 mm(W) x Max Ø70 mm or Less	57.5 mm ± 0.5 mm(W) x Max Ø70 mm or Less	57.5 mm ± 0.5 mm(W) x Max Ø70 mm or Less
Reliability	Life	15,000,000 lines	15,000,000 lines	15,000,000 lines	15,000,000 lines	15,000,000 lines
	MCBF	37,000,000 lines	37,000,000 lines	37,000,000 lines	37,000,000 lines	37,000,000 lines
	TPH	1×10^8 Pulse, 50 Km	1×10^8 Pulse, 50 Km	1×10^8 Pulse, 50 Km	1×10^8 Pulse, 50 Km	1×10^8 Pulse, 50 Km
Size		30(W) x 15(H) x 69.5(L) m	30(W) x 15(H) x 69.5(L) mm	15(W) x 30(H) x 69.5(L) mm	15(W) x 30(H) x 69.5(L) mm	19.7(W) x 31.5(H) x 69.5(L) mm

Specification – EFT POS Terminal

Model			SHC-350	SHC-310	SHC-210
Picture					
Submodel			SHC-350	SHC-310	SHC-210
Main	CPU		AT91SAM9G35, 400MHz	ARM9 LPC3240 266Mhz	ARM9 LPC3240 266Mhz
	OS		Embedded Linux (2.6.x)	Embedded Linux (2.6.x)	Embedded Linux (2.6.x)
	Memory	Flash ROM	128Mbyte	32Mbyte	32Mbyte
		SDRAM	128Mbyte	32Mbyte	32Mbyte
	MS		ISO-7811 Standard, 2/3 Track	ISO-7811 Standard, 2/3 Track	ISO-7811 Standard, 2/3 Track
	Display		480 x 272, 4.3" TFT Color, Touch (Option)	128 x 96 Graphic LCD	128 x 64 Graphic LCD
	Power		DC 24V / 2.5A	DC 24V / 2.5A	DC 9V / 2.5A
	Printer	Printing Method	3" Thermal with Auto Cutter	3" Thermal with Auto Cutter	2" Thermal
		Printing Speed	Max. 200 mm/sec	Max. 200 mm/sec	Max. 100 mm/sec
	Modem		ISO Modem (56Kbps)	ISO Modem (56Kbps)	ISO Modem (56Kbps)
	Key Pad		23Keys, Alpha/Num x 12, Function x 11	23Keys, Alpha/Num x 12, Function x 11	23Keys, Alpha/Num x 12, Function x 11
Smart Card	Smart Card		ISO-7816, EMV Level 1, Level 2	ISO-7816, EMV Level 1, Level 2	ISO-7816, EMV Level 1/ Leverl 2
	Sam Socket		4-SIM	4-SIM	4-SIM
Interface	Serial		4 Ports	3 Ports	3 Ports
	USB		1 Port, Type 'A'	1 Port, Type 'A'	Option
	Ethernet		1 Port	1 Port	1 Port
	Telephone		2 Ports	2 Ports	2 Ports
	Drawer		1 Port	1 Port	-
Dimension			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	DC 24V/2.5A	DC 9V/2.5A

Model			Signature Pad	
Picture				
Submodel			SSP-1100	SSP-1000
Main	CPU		32bit ARM Processor (Cortex M3)	32bit ARM Processor (Cortex M3)
	Touch Panel		A2281F	A2281F
	Display		128 x 64 Graphic Touch LCD	128 x 64 Graphic Touch LCD
	Key Pad		-	-
Interface	Serial		RS-232C x 2 Ports	RS-232C x 1 Port
	USB		Yes (Option)	Yes (Option)
Dimension			75(W) x 131(D) x 29(H) mm	75(W) x 131(D) x 20(H) mm
Power Supply			DC 5V/1A	DC 5V/1A

Specification – Peripherals

Model		QCD-P15/N15	SPM-T15
Picture			
Submodel		15" Rear Display	15" Touch Monitor
TFT-LCD	Size of LCD Panel	15" LCD	15" LCD
	Resolution	1024 x 768	1024 x 768
	Color	16.2M	16.2M
	Brightness	250cd/m²	250cd/m²
	Lamp life Time	Min 30,000Hrs	Min 30,000Hrs
Touch Panel	Type	-	15" 5W Resistive
	Transparency	-	81%
	Touch Life	-	36 Million Times
	OS	-	Window XP/ POSReady 2009 / POSReady 7 / Windows 7
Power Adaptor	Type	-	40(W) External Adaptor
	Input Voltage	-	AC 100V~240V, 50/60Hz
	Output Voltage Current	-	DC 12V/5A
Set	Input Signal	Analog RGB	Analog RGB
	Video Input Signal Connector	D-SUB 15Pin VGA Type	D-SUB 15Pin VGA Type
	OSD Contral Function	-	5 Press Button
	Regulations Approved	CE/ FCC/ RoHS	CE/ FCC/ RoHS
	Temperature	0℃~40℃	0℃~40℃
	Humidity	10%~80%	10%~80%
Option	MSR	-	Yes
	MSR + iButton	-	Yes
	MSR + FPR	-	Yes

Model		SCD-100	
Picture			
Submodel		9.7" Rear Display	9.7" Pole Display
Measurement	Display	246(W) x 197(D) x 115(H)mm	246(W) x 197(D) x 115(H)mm
	Stand	-	200(W) x 128(D) x 28(H)mm
	Height	-	450mm ~ 550mm
LCD Panel	Size of LCD Panel	9.7" LCD	9.7" LED Back Light
	Resolution	1024 x 768	1024 x 768
	Color	262K	262K
	Brightness	300cd/m²	300cd/m²
Set	Input Signal	Analog RGB	Analog RGB
	Video Input Signal Connector	D-SUB 15Pin Cable	D-SUB 15Pin Cable
	Input Voltage	12V/1A, 50/60Hz ± 3Hz	12V/1A, 50/60Hz ± 3Hz
	Temperature	10℃~40℃	10℃~40℃
	Humidity	10%~80%	10%~80%

Specification – Peripherals

Model		QCD-L7	QPD-ML700
Picture			
Submodel		7" Rear Display	7" Pole Display
TFT-LCD	Size of LCD Panel	7" LCD	7" LCD
	Resolution	800 x 480	800 x 480
	Brightness	400cd/m²	400cd/m²
Interface	Serial	-	RS-232C (RJ-45/D-SUB 9Pin)
	USB	-	USB (Vertual COM)
	Ethernet	-	Option (10/100 base-T)
	Wi-Fi	-	Option (IEEE 802.11b/g)
Input Signal		LVDS	LVDS
Power Adaptor	Type	-	External Adaptor
	Output Voltage Current	-	DC 7.5V/2.5A
Storage	NAND Flash	-	512Mbyte
Image	Format	JPEG, BMP, GIF, PNG, TGA	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		QCD-V202	QPD-LV202	QPD-ML162S
Picture				
Submodel		VFD Rear Display	VFD Pole Display	2Line Character LCD
Display	Type	VFD	VFD	2Line Character LCD
	Font	-	-	Europe
	Color	Green	Green	Yellow-Green
	Format	20 Columns x 20 Line	20 Columns x 20 Line	16 Columns x 2 Line
Interface	Serial	RS-232C (RJ-45)	RS-232C (RJ-45/D-SUB 9Pin)	RS-232C (RJ-45/D-SUB 9Pin)
	USB	-	USB (Virtual COM)	-
Emulation		CD 5220/ DSP800/ EPSON ESC / POS/ ADM788 / ADM787 / AEDEX / UTC-S / UTC-E / ICD2002		EPSON/STAR ESC
Power	Supply Voltage	DC 12V	DC 7V~12V	DC 7~12V
	Consumption	4.5W (Max)	4.5W (Max)	2.5W (Max)
Tilt Angle		0~40˚	0~40˚	0~30˚
Swivel Angle		-	350°	-

Specification – Peripherals

Model	ELLIXBLUE		
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 18 dBm 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	C5V 80mA, USB: USB BUS POWER, RS-232C: D-SUB 9Pin, DC 5V Adaptor		
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		

Model			Drawer		
Picture					
Submodel			H-Drawer	G-Drawer	Bplus-Drawer
Color			Ivory / Dark Gray	White / Black	White / Black
Dimension			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	Steel	Steel
	Bottom Material		Steel	Steel	Plastic
Tray	Till Material		Steel	Steel	Plastic
	Sliding Type		Plastic-Roller	Plastic-Roller	Plastic-Roller
	Media Slot		2 Slots, Height: 10mm	2 Slots, Height: 10mm	1 Slot, Height: 10mm
	Lock Key		3 Position (4 Function) ① On-Line ② Closed ③ Locked Open ④ Manual Open		
			1 Type of Lock Key Olny	1) 3 Position Key Option 2) 8 Type of Different Lock Key Option	
Bill Coin	Bill Till Size (mm)	Width	72 (5B5C) / 90 (4B8C)	87 (4B8C) / 67 (5B5C)	82 (3B4C) / 67 (4B4C)
		Depth	180	176	179
		Height	54	51 (4B8C) / 46 (5B5C)	45
	Coin Till Size (mm)	Width	71 (5B5C) / 87 (4B8C)	78 (4B8C) / 63 (5B5C)	62
		Depth	95 (5B5C)/46 (4B8C)	62 (4B8C) / 93 (5B5C)	84
		Height	48 (5B5C) / 41 (4B8C)	39 (4B8C) / 48 (5B5C)	39
	Coin Box Separation		-	Yes (4B8C) / No (5B5C)	Yes
	Coin Partition Separation		Yes	Yes	Yes
	Bill Partition Separation		Yes	Yes	Yes
	Lever Press	Standard	Plastic	Plastic	Plastic
		Option	Steel	Steel	Steel
Lock Unit	Compulsory		Yes	Yes	Yes
	Latch		2 Latch	2 Latch	2 Latch
Interface			RJ-11	RJ-11	RJ-11
Locking Lid			Yes (Option)	Yes (Option)	-
Power Input (Solenoid)			12V / 24V	7V / 12V / 24V	7V / 12V / 24V
Life			1,000,000 Cycle	1,000,000 Cycle	300,000 Cycle
Weight (kg)			6.7	6.7	3.1

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