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1.   GENERAL INFORMATION

1.1.   Product description of EFT 930S with modem V32bis

The EFT930-S is a bank payment terminal.
The EFT930-S equipment is the V32bis modem version of the product range EFT930-S.
Communications type for the EFT930-S:
- V32bis modem (EFT 930-S)
- Ethernet/IP (EFT 930-SE)
- GSM/GPRS + V32 bis modem (EFT 930-SG)
- GSM/GPRS + ethernet/IP (EFT 930-SE)

For more information, See clause 1.6

1.2.   Related Submittal(s) / Grant(s)

All host equipment used in the test configuration are FCC granted, when relevant.

1.3.   Tested System Details

The FCC IDs for all equipment, plus description of all cables used in the tested system are :

Trade Mark – Model Number (Serial number)	FCC ID	Description	Cable description
SAGEM Monetel EFT930-S * (Sn: 154010)	**TTSEFT930SM**	Bank payment terminal	I/O connection, spiraled cable, unshielded
SAGEM Monetel AD5632LF *(sn:none)*	none	Switching mode power supply	Power supply cord unshielded
TELTONE TLS-5B02 *(sn:017652)*	none	Telephone line simulator	Power supply cord unshielded
Smartcard (Bank card) Sn: none	-	-	-
SAM/SIM cards (x2) Sn: none	-	-	-

* : Equipment under test

1.4.   Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-2003, FCC Part 15 Subpart B.
Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

1.5.   Test facility

Tests have been performed on March 28th, 2007.
The test facility used to collect the radiated and conducted data is the **LCIE** (Etablissement Voiron) facility, located ZI des Blanchisseries, 38500 VOIRON, France. This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4 in a letter dated July 14, 2005 (registration number 94821).

This test facility has also been accredited by COFRAC (French accreditation authority for European Union test lab accreditation organization) according to NF EN ISO/IEC 17025, accreditation number 1-1633 as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.

1.6.   Data sheets of EFT930-S

EFT930-S
A small and convenient desktop terminal

Printer

Magnetic card

Smart card

SAM readers

An all in one cable

USB connectors

Compact, elegant and rapid – the EFT930-S has the features needed to win over the most demanding businesses. Based on Telium® technology, the terminal is powerful, secure and meets the needs of financial establishments looking for performance and security. Moreover, it provides the means with which to carry out a successful and safe EMV migration.

Ergonomic
A wide graphic backlit screen complete with an ergonomic keypad guides the user. A vertical swipe card reader and a frontal slot for smart cards further simplify use. A printer that instantly loads paper prints receipts clearly and quietly.

Rapid
A 32-Bit RISC ARM9 processor, a fast printer (15l/s), optimized smart card couplers and a rapid V32 Bis modem enable the EFT930-S to carry out transactions in record time.

Fast communication
V32 bis modem, ethernet, GSM or GPRS, EFT 930S has the best choice of communication means to fulfill the requirements of payment establishments and retailers.

Integrates perfectly in the POS
The EFT930-S takes up minimum counter space. It is easy to handle and weighs little (465g), making PIN entry quick and simple. A single spiral cord also facilitates handling. As for links, these are carried out using the Magic Box.

Certified equipment
The EFT930-S is PED PCI certified. It contains a security coprocessor for PIN entry. EMVCo certified its smart card reader and its EMV level 2 kernel . The terminal can meet the security and functional requirements of the major national regulation.

A wide choice of applications
The EFT930-S can host a large number of applications thanks to its large memory (16+8 MB). It can process banking cards as well as private and loyalty cards and even electronic coupons.

Telium®: The technology of the future
The EFT 930-S is built around Telium® technology, making it powerful and secure. It has development (SDK) and terminal management (TMS) tools. As a result, it can draw on the extensive software catalog developed for the Telium® product range. With substantial memory space, two SAM readers, USB ports and a serial link, the EFT930-S is ready to meet the demands of electronic transactions in the 21st century.

EFT930-S and its Magic Box

Technical characteristics
- 32-Bit RISC ARM9 (200 Mips) microprocessor
- Integrated security coprocessor
- Security: PCI certified
- Memory: Flash 16MB; SDRam 8MB
- EMV smart card reader
- Two SAM (Security Access Module) readers
- Magnetic readers: track 1/2/3
- Graphic backlit screen: 57 x 36mm (128 x 64 points)
- Backlit keypad: 16 keys, 3 of which are colored
- Functional backlit pad with 6 keys
- Easy loading thermal printing: 15 l/s
- Receipt: 58 mm - Roll: Ø 40 mm
- Buzzer
- Connections:
  - Terminal USB: 2 (master + slave)
  - USB: 1 (master)
  - RS232-C: serial
- Communications:
  - V32bis modem (EFT 930-S)
  - Ethernet/IP (EFT 930-SE)
  - GSM/GPRS + V32 bis modem (EFT 930-SG)
  - GSM/GPRS + ethernet/IP (EFT 930-SE)
- Magic box:
  - 1 connector: series
  - 1 connector: Sector
  - Connector: telephone line (In/Out)
- External power supply: 110-230V - 50hz
- Size and weight: 79 x 180 x 65 mm / approx 465g

Software
- Development kit and associated modules: SDK Telium®
- Terminal management: TMS Telium®

Telium
SAGEM Monetel