

PPSX 2060
SERIES

AUTOMATIC ON-LINE CRYPTO UNITS for **X.25 PACKET-SWITCHED DATA**



Philips Crypto B.V.



PHILIPS

PPSX 2060 series

Crypto units for X.25 packet-switched data

Philips Crypto's PPSX 2060 series is a family of three compact units, each of which will provide on-line, full-duplex, end-to-end cryptographic protection in automatic packet-switched data networks conforming to CCITT Recommendation X.25. Two of the units are for use with X.25 packet hosts, providing protection for up to 32 logical channels simultaneously; the third is for use with asynchronous data terminals.

Each unit supports all standard X.25 functions. Encryption/decryption takes place between layers 3 and 4 as defined in the ISO model for OSI* networks. Connected between the data terminal equipment (DTE) and the data communication equipment (DCE), the unit analyses each incoming packet, isolates and encrypts or decrypts the user data, reconfigures the packet and passes it to the DCE or DTE as appropriate.

All crypto operations are fully automatic and are performed with the aid of Philips Crypto's PKMS 2000 automatic key-selection system, in which each user's crypto key material is stored in a personal Smart Card with PIN-code protection. Different keys are generated for each logical channel and used in the order in which the packets are offered to the unit.

Each unit is designed to stand on a desktop or can be mounted in a standard 19" rack with the aid of a subframe. The front panel has a keypad for entering functions such as the user's PIN-code, mode changes and programming, together with a 2 x 24-character LCD display.

The three units in the PPSX 2060 series are:

- PPSX 2065:** Encryption/decryption unit for use with X.25 packet hosts.
- Can handle up to 32 logical channels simultaneously.
 - Electrical interface: RS 232, up to 19.2 kbps.
 - Logic interfaces with DTE and DCE in accordance with X.25 definitions.
 - Permits crypto traffic only.
- PPSX 2066:** Same as PPSX 2065 but with RS 449 interface; total speed up to 64 kbps.
- PPSX 2067:** Encryption/decryption unit for use with asynchronous data terminals in X.25 networks.
- One logical channel.
 - Data to and from terminal processed by Package Assembler-Disassembler (P.A.D).
 - Electrical interface RS 232, up to 19.2 kbps.
 - Logic interfaces: ASCII code (DTE side), X.25 (DCE side)
 - Connection setup is aimed at crypto traffic; 'plain' mode can be selected manually if remote terminal is not crypto-protected.

Technical data

Application	<ul style="list-style-type: none"> • Automatic packet-switched data networks (public and private) conforming to X.25.
Configuration	<ul style="list-style-type: none"> • Stand-alone (desktop) or rack-mounted. • Connected between DTE and DCE.
Features	<ul style="list-style-type: none"> • Encryption/decryption of user data between layers 3 and 4. • All standard X.25 functions retained. • User-programmable settings. • Plain mode for compatibility with non-crypto packet terminals (PPSX 2067 only).
Crypto	<ul style="list-style-type: none"> • Automatic encryption/decryption per logical channel. • Key generator cycle length: > 10,000 years. • Initial two-way synchronisation. • PKMS 2000 automatic key-selection system. • PIN-protected key storage on Smart Card. • Key diversity > 10³⁶.
Particulars	<ul style="list-style-type: none"> • Up to 32 logical channels (PPSX 2065 and PPSX 2066). • One logical channel with built-in P.A.D. for asynchronous data terminal (PPSX 2067). • Speeds: <ul style="list-style-type: none"> - PPSX 2065 up to 19.2 kbps - PPSX 2066 up to 64 kbps - PPSX 2067 up to 19.2 kbps
Option	<ul style="list-style-type: none"> • Customer-unique crypto algorithm.
Power supply	<ul style="list-style-type: none"> • Voltage (nominal): 110/220/240 Vac • Frequency: 50/60 Hz • Power consumption: 15 W max
Interfaces	<ul style="list-style-type: none"> • Data: <ul style="list-style-type: none"> - PPSX 2065 and 2067 RS 232 - PPSX 2066 RS 449 • Installation RS 232

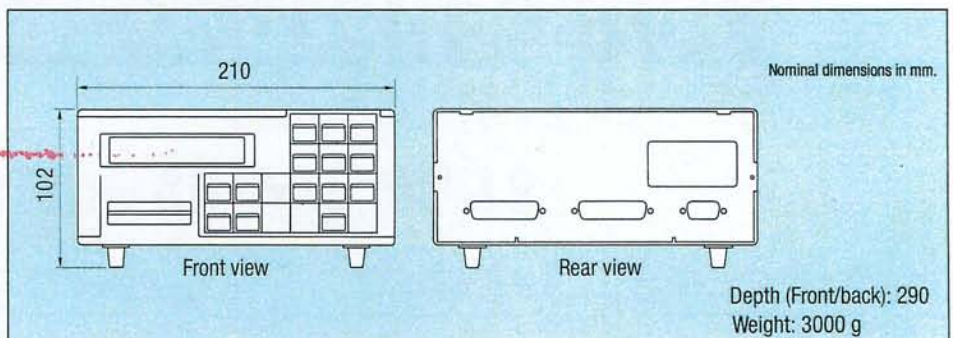
* OSI = Open Systems Interconnection

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