

THALES



payShield 9000

The hardware security module
securing the world's payments

>> Security you can trust

The payment card industry is constantly facing new challenges just to remain competitive. Transaction volumes continue to grow, new payment channels such as contactless and mobile channels are being introduced, and there is a need to increase cardholder data protection. Meanwhile, mission-critical payment systems are increasingly housed in modern “lights out” data centres, making their resilience and cost effective management a crucial part of efficiency.

payShield 9000, the latest Thales Hardware Security Module (HSM) meets these needs. With world leading cryptographic performance and resiliency options, it meets the business continuity requirements necessary to support the growth in global transaction volumes, protecting cryptographic keys, PINs and other sensitive information. It has a range of software options for issuers, card schemes, payment processors, acquirers and switches, and its security engine is designed to meet both FIPS 140-2 level 3, and the recently introduced Payment Card Industry Hardware Security Module standard (PCI HSM).

Data Centre Ready

Thales is the first supplier to offer dual power supplies in a payment HSM supporting the resiliency needs of high-capacity shared infrastructures in mission-critical security systems within modern data centres. Optional secure remote management of devices reduces operational costs for customers with remote or multiple HSM sites, and payShield 9000 can be shared between different applications without compromising security responsibilities by cryptographically isolating the keys each application uses. These key features not only address the operational and management requirements of centralised resources but reduce the costs of operating HSMs deployed in today's data centres.

Optimised for card issuing and payment processing

payShield 9000 is one of the few HSMs designed specifically for card issuing and payment processing. It works with all the major banking sector payment authorisation and transaction switching applications. Our development team closely tracks the latest card scheme payments standards, meaning that payShield software is always up to date and ready to support your growth strategy. But should you need it, we can also develop custom functionality to your specification.

Choose exactly what you need

payShield 9000's range of performance models and functionality modules gives you the flexibility to match your investment to your needs – from the smallest system to world leading 1500 transactions per second performance. As your business grows, new performance and features can be added through secure software upgrades, without the need to replace hardware. And with payShield 9000's new software packages tailored for card issuers and transaction processors it's now even easier to cost effectively choose what you need. You can even mix payShield 9000 with Thales HSM 8000 and RG7000 HSMs as it is fully backwards compatible with them.

Beyond security compliance

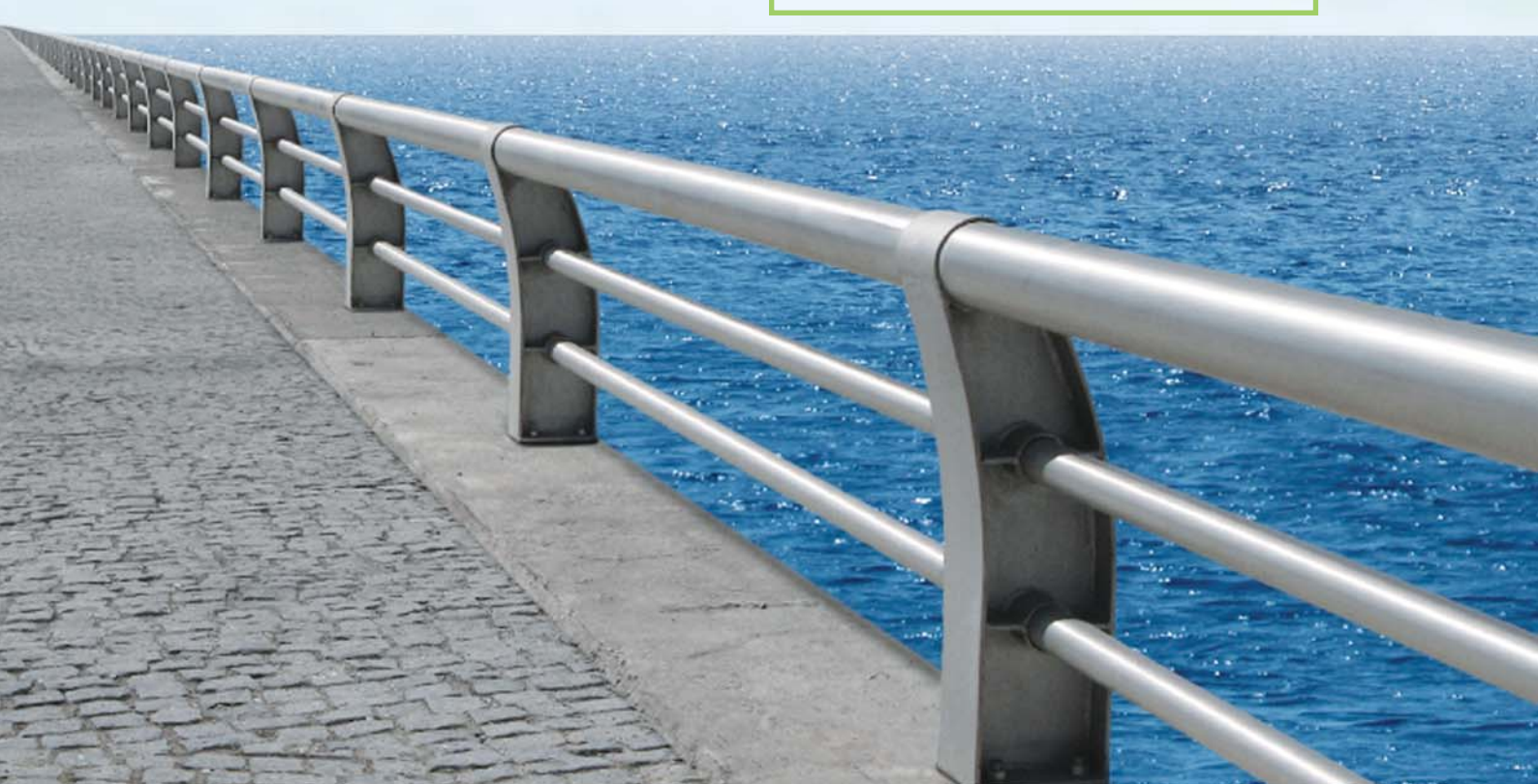
payShield 9000's security goes beyond FIPS 140-2 certification requirements. Capabilities include dual physical locks, two-factor authentication of operators and detectors for movement, tampering and temperature and it includes enhanced security that means it can be placed at the heart of critical protection of any payments infrastructure.

Have confidence in your supplier

HSMs are a mission-critical part of your payment processing infrastructure so having confidence in your supplier is vital. Thales has the longest history of developing HSMs, building on the first ever HSMs used by Visa some 25 years ago. By choosing Thales as your HSM provider, you are investing in a world leader in payments security whose products protect 70% of all ATM/EFTPoS transactions.

Thales is a Fortune 500 company with the resources to provide a continuing roadmap, bespoke customisation and a global network of local partners to provide you with expert support when and where you need it.

For further information such as technical datasheets and application notes, please visit thalesgroup.com/iss or see reverse for regional contact details.



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