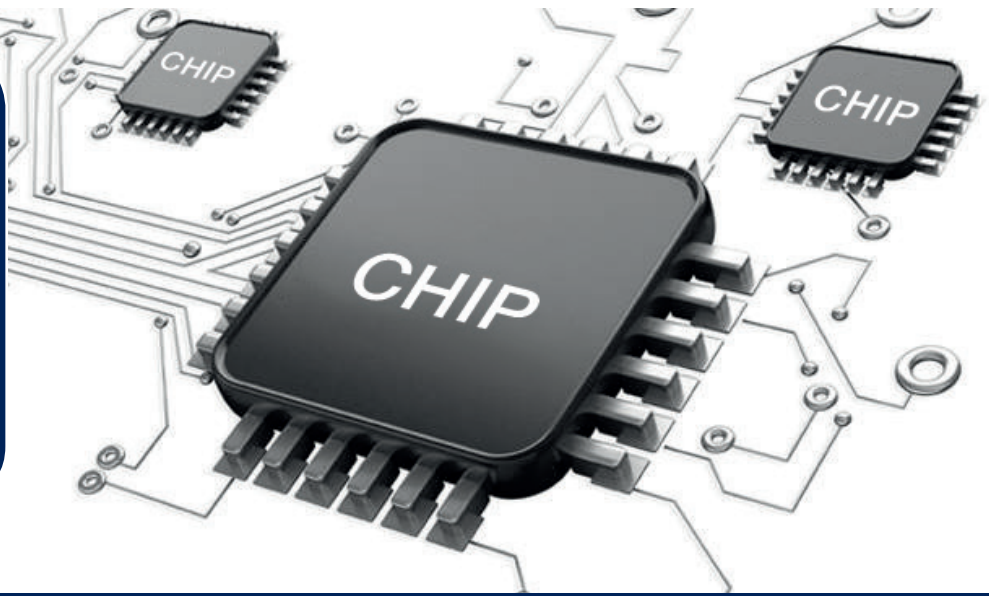


# FIRMWARE- GUARD<sup>+</sup>

SECURING FIRMWARE  
IN A CONNECTED  
WORLD



## BRIDGING THE GAP BETWEEN PCI COMPLIANCE AND YOUR PAYMENT DEVICE

### SECURE FIRMWARE AND KEY MANAGEMENT

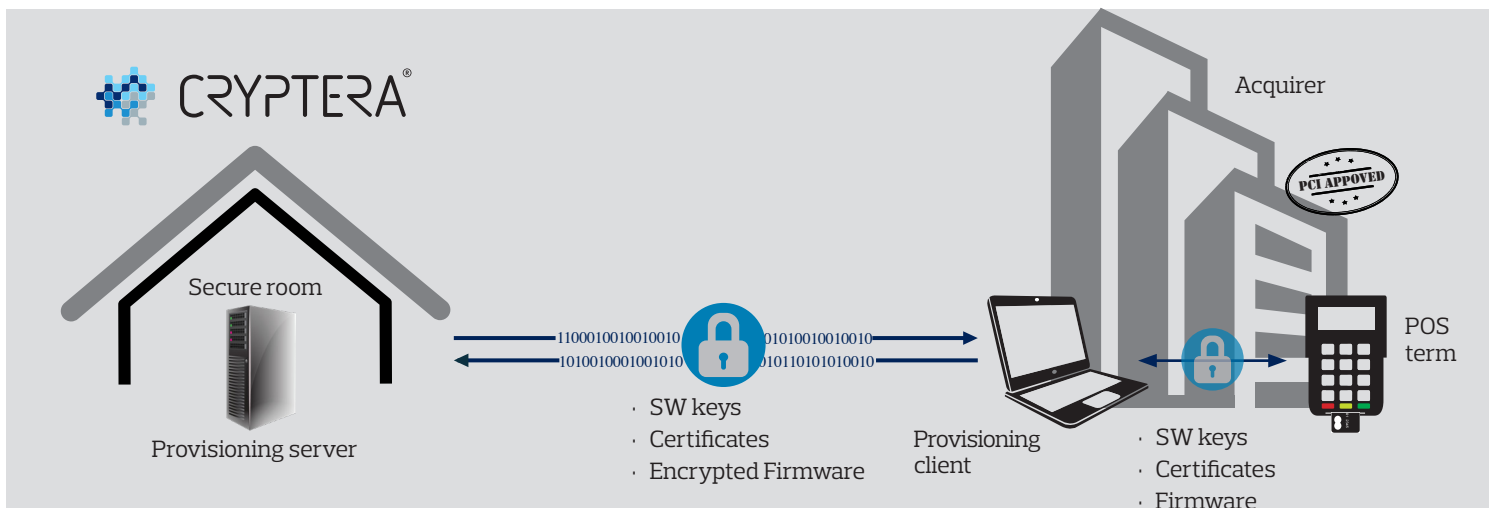
We believe in making things easy! Anybody planning to run transactions that involves the "Payment Card Industry" players will need PCIPTS compliant devices for user interaction and PCI compliant firmware and key Management.

Leave the hardened security to us and reduce the time-to-market with Cryptera's service that covers device deployment from cradle to grave. Save the vast expenses for establishing a PCI compliant secure room, maintaining state-of-the-art cryptographic knowledge and PCI audits.

Use FirmwareGuard<sup>+</sup> from wherever you prefer – we deliver a complete service which is easy to deploy and use.

### CUSTOMER BENEFITS OF FIRMWAREGUARD<sup>+</sup>

- Reduce the time-to-market for payment devices and save cost for PCI compliant facilities
- Establish a root of trust for key management and firmware load
- Authenticated and secure firmware updates Over-The-Air (OTA)
- Outsource production without compromising IP
- Manage a multitude of configurations in vendor-agnostic devices
- Compliant loading of Keys and Certificates into PTS devices
- Easy deployment – Cryptera delivers a complete package



## FirmwareGuard+ offers:

- Secure Boot – root of trust assuring that the device is running genuine code only
- IP protection
- Production management – prevents cloning and overproduction
- Secure remote FW updates "Over the Air"
- Distributed production possible
- Key and Certificate provisioning
  - Issuing Host Certificates
  - Loading of certificates in device
  - Import of symmetric keys from acquirer/P2PE processor
  - Loading of symmetric keys in devices
  - Key management services
- Certifiable and Auditable solution that complies with the highest standards for a regulated market

	Regulated market	IoT market
	FirmwareGuard+	FirmwareGuard
Secure Boot loaders	X	(X)
IP protection (overproduction, anti-cloning, code secrecy)	X	X
Secure "Over-The-Air" firmware updates	X	X
Key management services	X	-
PCI Certificates	X	X
Cloud Certificates		X
Audit services	X	-

### ABOUT CRYPTERA

Cryptera is a Payment Technology Company – we are experts in the fields of encryption, certification and secure provisioning. We offer a full span of solutions comprising of hardware, software and services to protect sensitive information using cryptographic methods and secure processes.

Headquartered in Copenhagen, Denmark, Cryptera has rolled out more than 1.7 million payment solutions and is the OEM supplier of some of the top manufacturers of ATMs and petrol pumps worldwide, as well as self-service and self-checkout devices. Cryptera has been appointed a VISA-certified facility for encryption key load.

#### CRYPTERA A/S

Fabriksparken 20  
DK-2600 Glostrup

Phone: + 45 4343 4395  
info@cryptera.com

www.cryptera.com  
www.firmwareguard.com

