

Application Note for OTP Program

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Application Note for OTP Program

◆ Introduction

This application note is designed to provide guideline for OTP block usage

There are some restrictions to use SEC NOR Flash OTP block

In order to use OTP block properly, please refer to the below timing condition and flow chart

◆ Affected Product(MCP Only)

K8A5615ETA, K8A5615EBA, K8A2815ETB, K8A2815EBB, K8A6415ETB, K8A6415EBB

◆ How to use OTP block

1) OTP block Program

i) Without Block Protection

OTP Enter CMD → Program CMD → OTP Exit CMD

ii) With Block Protection

OTP Enter CMD → Program CMD → OTP Exit by **H/W reset or Power off**

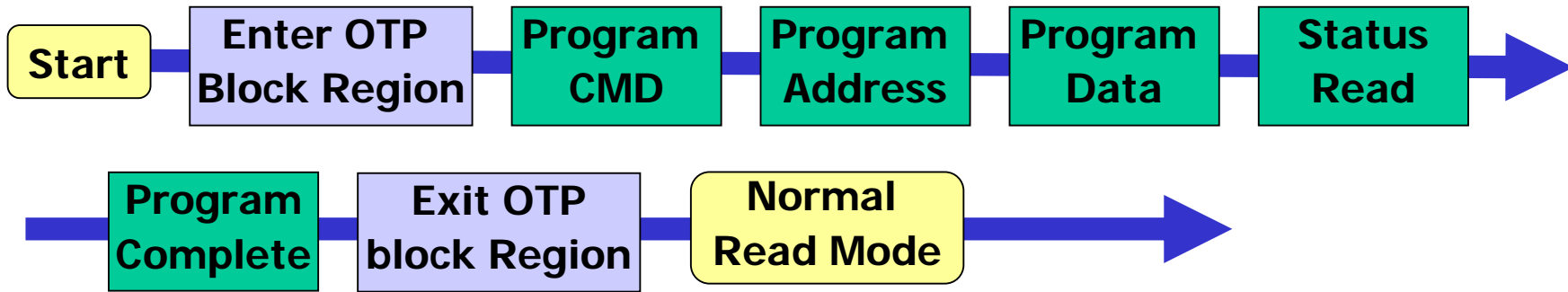
2) OTP block Read

OTP Enter CMD → Read CMD → OTP Exit CMD

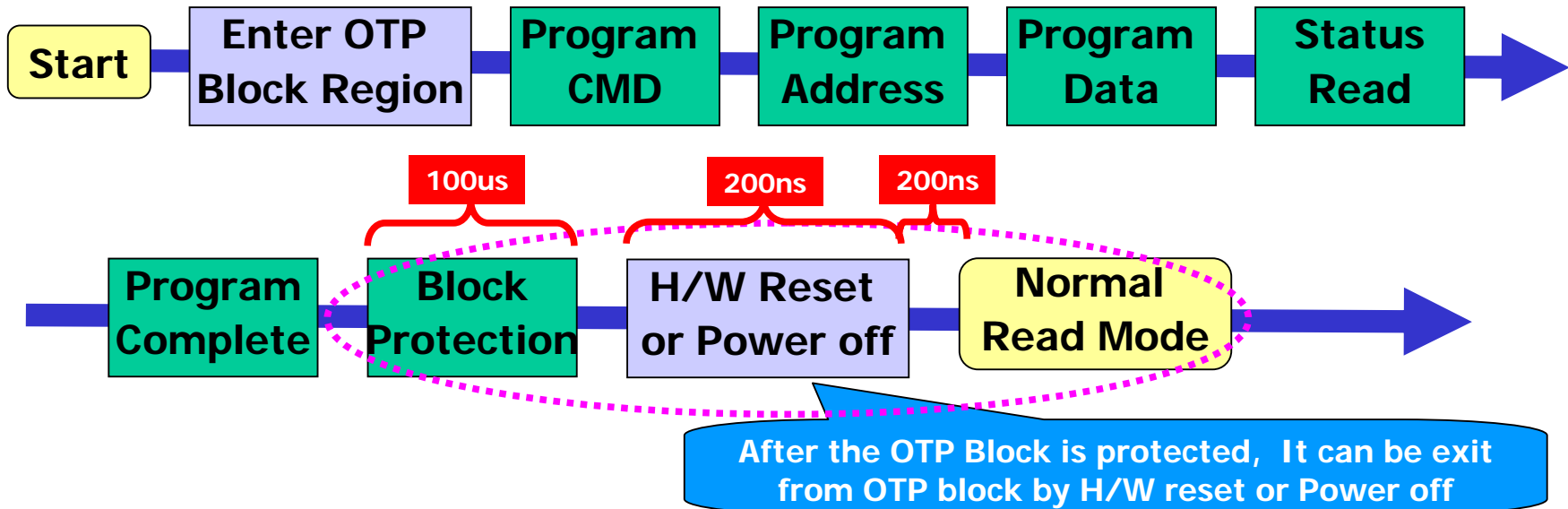
→ In the next page, there're more details for OTP block program with block protection

OTP Program Flow

i) OTP block Program Without Block Protection



ii) OTP block Program With Block Protection



OTP block Protection

◆ Main block protection invoking time

Block	Protection indicator
Main Block	Register Type
OTP Block	Normal Cell Type

If you keep the AC parameter[tDH,tDS] related to write operation, register type block protection indicator bit switching time could be neglected

OTP block protection indicator bit made by floating gate takes longer time to indicate 'block protection'["1" bit to "0" bit]