Customer training workshop

TRAVEO[™] T2G trigger multiplexer







Target products

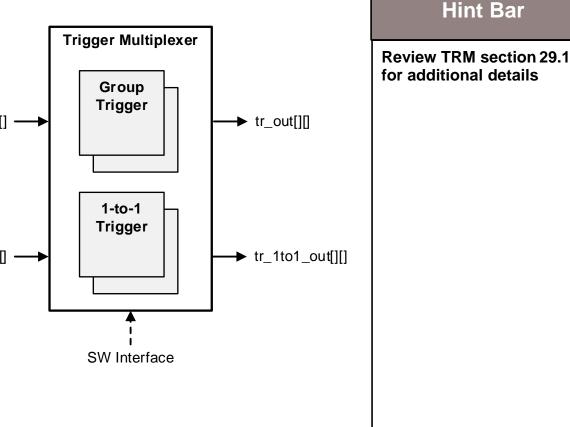
> Target product list for this training material:

Family category	Series	Code flash memory size
TRAVEO [™] T2G Automotive Body Controller Entry	CYT2B6	Up to 576 KB
TRAVEO [™] T2G Automotive Body Controller Entry	CYT2B7	Up to 1088 KB
TRAVEO [™] T2G Automotive Body Controller Entry	CYT2B9	Up to 2112 KB
TRAVEO [™] T2G Automotive Body Controller Entry	CYT2BL	Up to 4160 KB
TRAVEO [™] T2G Automotive Body Controller High	CYT3BB/4BB	Up to 4160 KB
TRAVEO [™] T2G Automotive Body Controller High	CYT4BF	Up to 8384 KB
TRAVEO [™] T2G Automotive Cluster	CYT2CL	Up to 4160 KB
TRAVEO [™] T2G Automotive Cluster	CYT3DL	Up to 4160 KB
TRAVEO™ T2G Automotive Cluster	CYT4DN	Up to 6336 KB



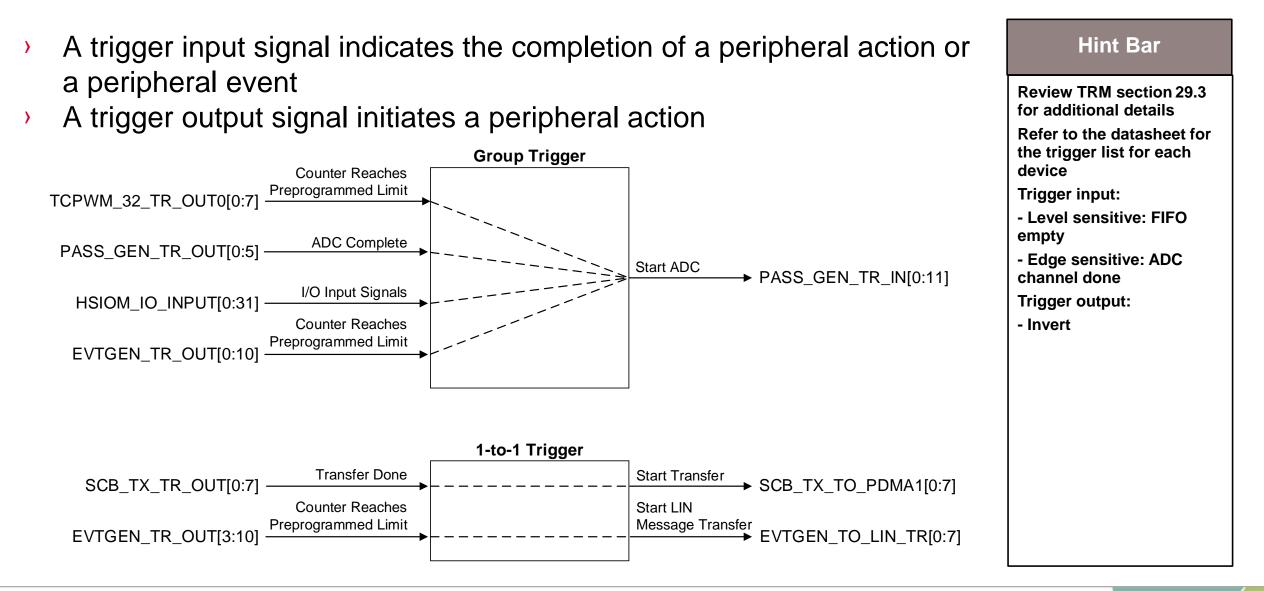
Trigger multiplexer overview

The trigger multiplexer helps the user) route triggers from a source peripheral block to a destination Group Trigger Features > tr in[][] Up to 16 multiplexer-based trigger groups 1-to-1 Up to 16 one-to-one trigger groups Trigger tr_1to1_in[][] - Software (SW) trigger support to trigger any signal in the block





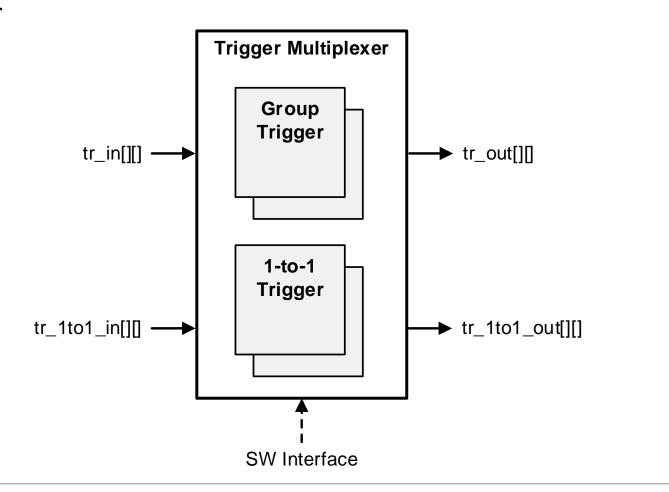
Trigger multiplexing

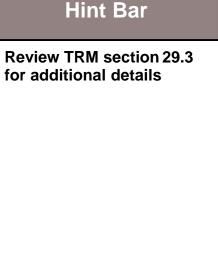




Trigger multiplexer block diagram

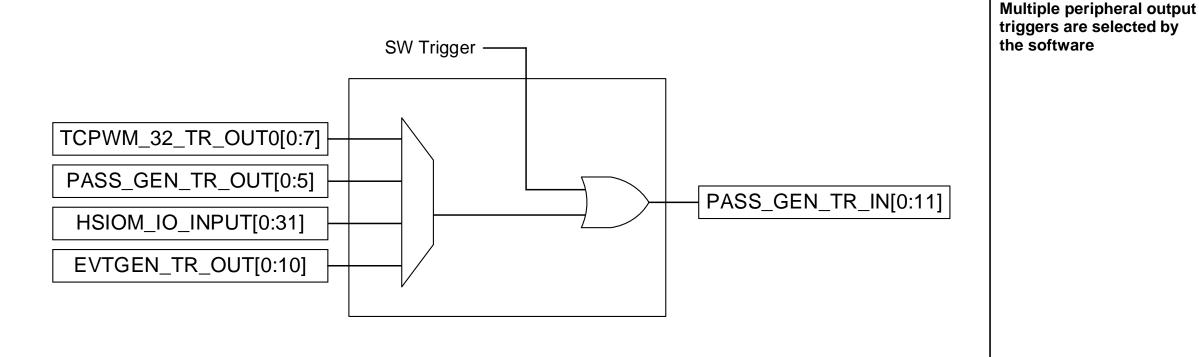
- > A trigger multiplexer consists of multiple trigger groups, which are of two types
 - Group trigger
 - 1-to-1 trigger





Connects a peripheral input trigger to multiple peripheral output triggers Generates a SW trigger

>





Functionalities



Hint Bar

Review TRM section 29.3 for additional details

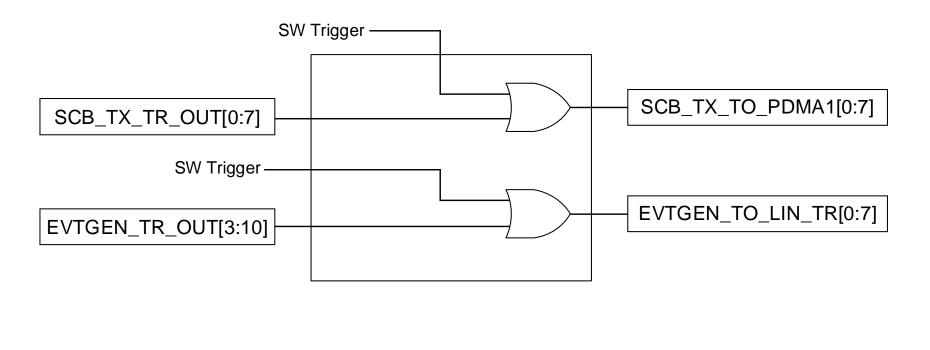
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Functionalities

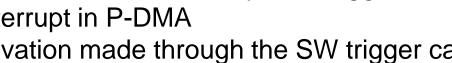
1-to-1 trigger

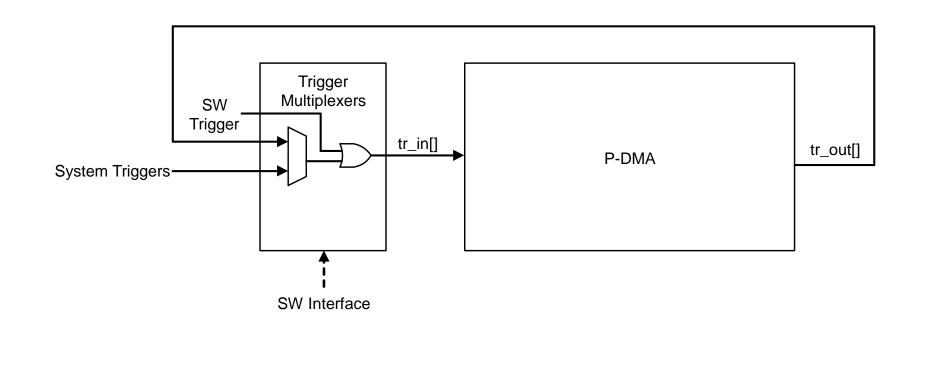
- Connects a peripheral input trigger to one specific peripheral output trigger
- Generates a SW trigger



Hint Bar

Review TRM section 29.3 for additional details





SW trigger is written as one of the system triggers of a) bit-encoded interrupt in P-DMA

Use case: SW trigger

P-DMA activation made through the SW trigger can enable the initial CRC _ on program data



Review TRM section 29.4 for additional details

Refer to the Direct Memory Access Training section for additional details on P-DMA





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Revision history

Revision	ECN	Submission Date	Description of Change
**	6086858	03/12/2018	Initial release
*A	6385302	11/19/2018	Added page 2 and the note descriptions for all pages Updated pages 4, 6, and 7 Deleted the Appendix section and TVII-B-E-1M Trigger pages
*В	6649424	08/07/2019	Added note description to page 9 Updated page 2
*C	7048497	12/18/2020	Updated page 2.
*D	7400477	10/15/2021	Updated page 1, 2.