



# Using the Output Compare Function on the Time Processor Unit and an Example that Includes PPWA



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# Motorola Semiconductor Engineering Bulletin

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## EB282

### Using the Output Compare Function on the Time Processor Unit and an Example that Includes PPWA

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#### Introduction

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The output compare function (OC) on the time processor unit (TPU) has three modes of operation:

- Read TCR1/TCR2
- Host-initiated pulse
- Continuous pulse

In the read TCR1/TCR2 mode of operation, the TPU reads the most recent values of TCR1 and TCR2 and returns them in memory locations \$FFFFEC and \$FFFFEE. In the host-initiated pulse mode, the TPU performs the same function as in the read TCR1/TCR2 mode of operation, except that it also immediately forces the pin high or low as specified in the PSC field. It then forces the pin again at a designated time in the future. In the continuous pulse mode, the TPU outputs a continuous train of 50% duty cycle pulses. The OC function can receive links (a link is a service request from another channel) only in the continuous mode.

For a detailed discussion of the OC function and all of its parameters, see *Output Compare TPU Function (OC)*, Motorola document order number TPUPN12/D. This document can be ordered from Literature Distribution Center or it can be accessed on the Worldwide Web at

