
Generic Timer Module (GTM)**28.11 Cluster Configuration Module (CCM)****28.11.1 Overview**

As already mentioned in the chapter “GTM architecture”, each submodule of the GTM is aligned explicitly to a cluster. The Cluster Configuration Module (CCM) enables the configuration of several cluster specific options namely

- cluster's clock frequency,
- module clock gating,
- Status observation of the cluster's MCS bus master (AEM),
- address range protection, and
- global architecture configuration.

The register **CCM[i]_CFG** allows disabling the system clock signal for unused sub modules of the i-th cluster. The registers **CCM[i]_CMU_CLK_CFG** and **CCM[i]_CMU_FXCLK_CFG** allows the configuration of various cluster clock frequencies.

Figure 29 shows important details about the wiring of the cluster's local clock signals.