Product Overview

DLP2021-Q1 and AM263 DGP Application System

The DLP2021AM263Q1EVM supports automotive dynamic ground projection (DGP) in a small form factor system that utilizes the Sitara™ *AM263* as a controller for the *DLP2021-Q1 DMD*®. Features unique TI Sitara™ PRUs and the ability to display image and video content that has been preprocessed and stored in flash memory.

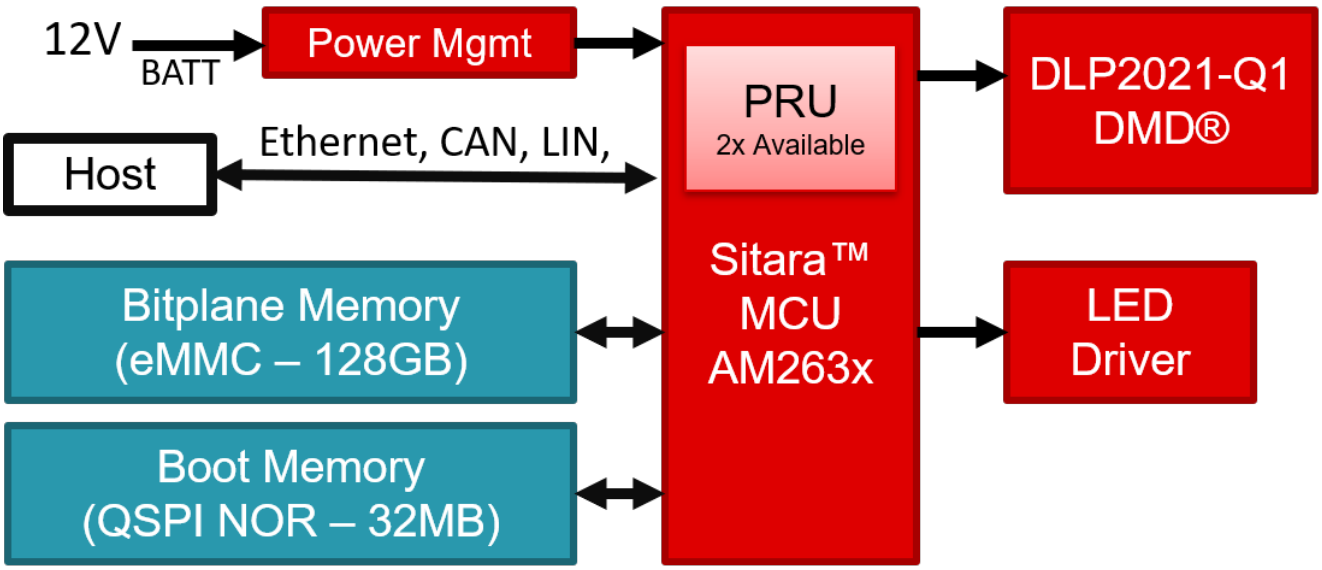

Figure 1. System Architecture

Optimized Features

- The Sitara AM263 offers a low cost alternative to existing FPGA or ASIC controller systems.
- Integrated Ethernet switch and direct host interface for Ethernet, CAN and LIN, reducing overall BOM cost.
- Software for integrated Programmable Real-time Unit (PRU) that allows fast and efficient processing, enabling low latency control.

Advanced Features

- AutoSAR support through integrated MCAL drivers.
- Sitara Cortex R5F at 400MHz for application specific features.
- Display from flash memory and in-system reprogramming.

DLP2021-Q1 DMD® + AM263 Sitara DGP	
Resolution	588 × 330
Color format	RGB564
Frame rate	25fps
Direct host interfaces	Ethernet, CAN, LIN
AutoSAR Support	Yes

Hardware and Software Support

DLP2021AM263Q1EVM Evaluation module

The EVM is designed to enable accelerated evaluation of the DLP2021-Q1 projection systems and can be combined with the existing optical module.

Software Package

The DLP2021AM263Q1EVM software package allows control over illumination, output brightness and video-image selection flashed on the EVM.

This software package enables users to create customized display sequences, allowing for timely presentation of predefined image and video content.

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