# HD222, HD1022

The BrightSign HD222 and HD1022 media players can be used to decode images, audio, and video (at resolutions up to 1920x1080x60p) for digital-signage and kiosk applications. In addition to driving audio/video devices, these players can be controlled with various networked and built-in interfaces.

This page specifies the hardware interfaces and operational theory of the HD222 and HD1022.

Block Diagram

5V Input

LTC4269
Power Over Ethernet

5V

Optional POE

LP2992
3V3 LDO

TPS54620
6A switching regulator

TPS65261
3 switching regulators

3.3V AO
@ 0.2A

TPS71710
1V0 LDO

1.0V AO
@ 0.1A

AO Supplies for S3 Standby

1.5V
@ 2A

2.5V
@ 3A

3.3V
@ 2A

TPS2500
USB Boost regulator

TLV70025
2V5 LDO

5V
@ 0.5A

5.0V USB
@ 1A

2V5
@ 0.2A
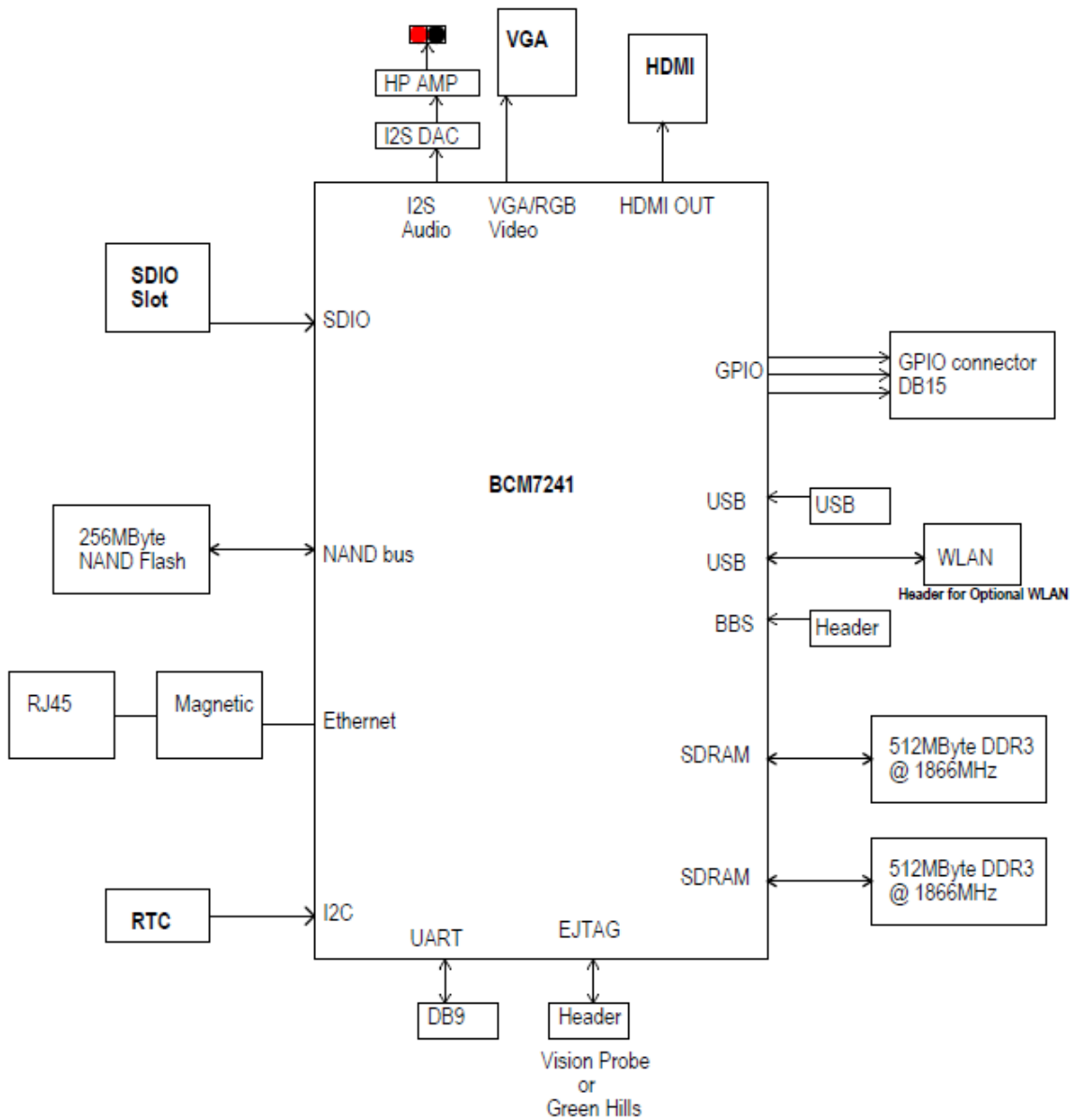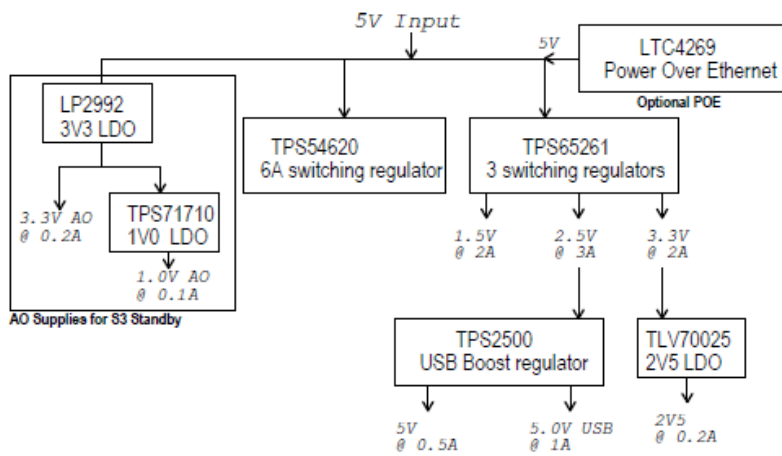
Interfaces

HD222

Front	Left	Right	Back
3.5mm audio out	GPIO service button	SDHC/SDXC flash card slot	3.5mm audio out
DA15 GPIO		Status/error LED (red)	GPIO reset button
		Update LED (yellow)	VGA out
		Power LED (green)	HDMI out
		SD activity LED (green)	RJ45 Ethernet
			5V@3A barrel power connector

HD1022

Front	Left	Right	Back
3.5mm audio out	GPIO service button	SDHC/SDXC flash card slot	GPIO reset button
DA15 GPIO	USB 2.0	Status/error LED (red)	VGA out
DE9 RS232 serial (male)		Update LED (yellow)	HDMI out
		Power LED (green)	RJ45 Ethernet
		SD activity LED (green)	5V@3A barrel power connector