

液晶パネルに必要な全デバイスを供給可能

All Devices Required by LCD Panels Offered

NEW



高精細液晶パネル向け機能安全導入車載チップセット

Chipsets for High Precision Automotive Panels

BU90AL211, BU90AL210, ML9882, ML9873, ML9872, BM81810MUV, BD81849MUV

Features

■ FHD/3Kクラスの高精細液晶パネルを簡単に構築可能

Easy construction of FHD/3K class high-definition LCD panels

■ 各ICで想定される故障モードを相互に検出可能

Mutual detection of failure modes assumed to be caused in ICs

■ メータクラスタに必要な機能安全をサポート

Supports the functional safety of meter clusters by integrating OSD functionality and monitoring LCD input signals

Applications

■ 車載メータ、センターアンフォメーション液晶

Vehicle instrument and center-mounted LCD panels

■ ディスプレイオーディオ、カーナビゲーション

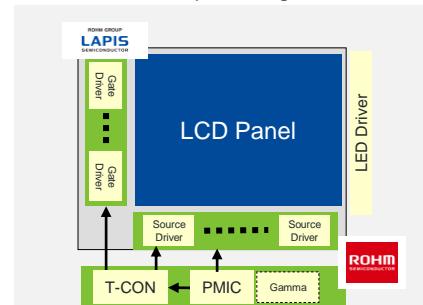
Display audio and car navigation

■ 電子ミラー用液晶パネル

LCDs for electronic mirrors

解像度別チップセットの構成

Resolution-Based Chipset Configuration



Device	FHD Class (1920×720)		3K Class (2880×1080)	
	Configuration		Configuration	
	Part No.	No. of Pcs.	Part No.	No. of Pcs
T-CON	BU90AL211	1	BU90AL210	1
S-Dr	ML9882 (1440ch)	4	ML9882 (1440ch)	6
G-Dr	ML9873 (960ch)	1	ML9872 (540ch)	2
PMIC	BM81810MUV	1	BM81810MUV	1
Gamma	BD81849MUV	1	BD81849MUV	1

*機能安全対応タイミングコントローラIC
Timing controller IC that supports functional safety

チップセットで検出可能な液晶パネルの不具合例

Examples of Defects in LCD Panels Detectable by Chipset

Examples of defects in LCD panels	Black Screen	Screen Burn-in	Delay in Display
Places of occurrence of error modes			
Assumed IC errors related to the occurrence of error modes	(1) Shutdown (2) LVDS signal error (3) LVDS signal error (4) Input voltage error ← Detected by PMIC (5) No signal output ← Detected by T-CON (6) Output fault to Low ← Detected by T-CON (7) LVDS signal error (8) Uncertain input signal ← Detected by T-CON (9) Input signal error ← Detected by T-CON (10) Input voltage error ← Detected by PMIC	—	—
PMIC	(1) Shutdown (2) LVDS signal error (3) LVDS signal error (4) Input voltage error ← Detected by PMIC (5) No signal output ← Detected by T-CON (6) Output fault to Low ← Detected by T-CON (7) LVDS signal error (8) Uncertain input signal ← Detected by T-CON (9) Input signal error ← Detected by T-CON (10) Input voltage error ← Detected by PMIC	—	—
T-CON	—	—	—
Source Driver	—	—	—
Gate Driver	—	—	—

アプリケーション例

Application Example

