

Linear Power: LDOs, Regulators & References

線性電源：LDO、穩壓與基準相關產品

定位 / Positioning

為 MCU、RF、感測器、模擬前端和車載電子提供低噪聲穩壓電源。

Low-noise regulated rails for MCU, RF, sensor, analog front-end and automotive electronics.

客戶痛點 / Customer needs

低噪聲、高 PSRR、低壓差、低靜態電流、小封裝、車規需求。

Low noise, high PSRR, low dropout, low IQ, small package and automotive-grade options.

推廣方向 / Sales angle

適合替代常用 LDO / RF LDO / 車載 LDO，尤其在成本與供貨彈性上切入。

Suitable for LDO / RF LDO / automotive LDO replacement programs.

產品整合 / Product Coverage

子系列 / Sub-family	代表型號 / Examples	重點賣點 / Key selling points	典型應用 / Applications
Low-noise LDO 低噪聲 LDO	DIO7911 DIO7976	600 mA / 500 mA 等級，低噪聲、高 PSRR，適合 RF 與模擬電源軌。 500-600 mA class low-noise, high-PSRR rails for RF and analog circuits.	RF modules, analog front-end, sensors, wireless devices RF 模組、模擬前端、感測器、無線設備
Automotive LDO 車規 LDO	DIA7976 DIA7986	支援 power-good、寬輸入/輸出範圍；DIA7976 為 AEC-Q100 qualified。 Power-good and wide voltage options; DIA7976 is AEC-Q100 qualified.	Automotive camera, cluster display, TCU, head units 車載攝像頭、儀表、TCU、車機
Ultra-low IQ LDO 超低靜態電流 LDO	DIO7982	適合待機時間長、電池供電及 always-on 小電流負載。 Good for long standby time, battery devices and always-on rails.	Wearables, remotes, IoT nodes, portable devices 穿戴、遙控器、IoT 節點、便攜產品

DIOO

Analog & Mixed-Signal IC Solutions

PRODUCT GROUP 03

子系列 / Sub-family	代表型號 / Examples	重點賣點 / Key selling points	典型應用 / Applications
Supervisor / reference blocks 監控與基準相關	DIO6810 / DIO8030 series	內含高精度參考與比較器，用於上電/掉電 reset 與 brownout 保護。 Reference and comparator based reset supervision for reliable startup/shutdown.	MCU reset, system power monitoring, portable electronics MCU reset、系統電源監控、便攜電子

總結SUMMARY

DIOO LDO 和監控產品可用於 MCU/RF/感測器電源軌，主打低噪聲、高 PSRR、小封裝和車載應用拓展。
DIOO linear-power ICs target clean MCU/RF/sensor rails, combining low noise, high PSRR, compact packages and automotive-oriented options.

備註：替代 LDO 時需確認 Vin/Vout/Iout、PSRR、noise、dropout、Cout 穩定性、PG 腳及封裝。 / Check Vin/Vout/Iout, PSRR, noise, dropout, output-cap stability, PG and package.