

Switching Power: DC/DC Converters & Power Rails

開關電源：DC/DC 轉換器與多路電源軌

定位 / Positioning

提供降壓、升壓、正負電源及高效率小尺寸電源方案。
Buck, boost, positive/negative rails and compact high-efficiency power solutions.

客戶痛點 / Customer needs

效率、溫升、瞬態響應、外圍少、電感/電容尺寸及輕載效率。
Efficiency, thermal, transient response, small BOM and light-load performance.

推廣方向 / Sales angle

可切入 LCD TV、STB、路由器、便攜儀器、電池供電和顯示屏電源。
Entry points: TV, STB, router, portable instruments, battery systems and display rails.

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
Synchronous Buck 同步降壓	DIO62845 DIO6155 DIO62810 / DIO62820	28 V / 2 A 級、600 mA 小尺寸級，支持高效率與快速瞬態。 28 V / 2 A class and small 600 mA class options with high efficiency and fast response.	STB, LCD TV, routers, industrial modules 機頂盒、LCD TV、路由器、工控模組
High-current buck 大電流降壓	DIO6047 DIO6930	2.7-5.5 V / 4 A 或 24 V / 3 A 等應用方向，適合主電源或負載點電源。 4 A or 24 V / 3 A class options for main rails or point-of-load supplies.	Access point, net PC, mini notebook, embedded boards AP、迷你主機、嵌入式板卡
Synchronous Boost 同步升壓	DIO6099 DIO6197 DIO6602 DIO6328E	低 IQ、輕載高效率，適合一/兩節電池或鋰電池升壓。 Low-IQ, light-load efficiency for one/two-cell or Li-ion boost designs.	Bluetooth devices, smartphones, portable systems 藍牙、手機、便攜設備

DIOO

Analog & Mixed-Signal IC Solutions

PRODUCT GROUP 04

子系列 / Sub-family	代表型號 / Examples	重點賣點 / Key selling points	典型應用 / Applications
Positive/Negative rails 正負電源軌	DIO5639	單電感正負電源輸出，可支援 LCD/OLED/模擬前端等多電源需求。 Single-inductor positive/negative rails for display and analog front-end supplies.	LCD/OLED bias, op-amp rails, sensor modules LCD/OLED 偏壓、運放電源、感測模組

總結SUMMARY

對於需要小尺寸、高效率、低待機功耗的電源方案，DIOO DC/DC 可作為主流 buck/boost 的替代選擇。
For compact, efficient and low-standby power rails, DIOO DC/DC products can be positioned as practical buck/boost alternatives.

備註：DC/DC 選型需確認 Vin、Vout、Iout、Fsw、效率、電感、封裝、熱設計及 EMI。 / Check Vin, Vout, Iout, Fsw, efficiency, inductor, package, thermal and EMI.