

Xscend's LDO regulators are designed to meet the rigorous demands of automotive and industrial applications. With a wide input voltage range of up to 40V,  $\pm 1\%$  output voltage accuracy, and low quiescent current, they ensure precise and efficient power delivery. These devices operate reliably across extended temperature ranges and feature robust protections, including 4kV ESD tolerance and integrated current limit and sense circuitry. Certified to AEC-Q100 Grade 1 standards, they are optimized for automotive environments, while their standardized packaging ensures compatibility with existing designs. Built for durability, Xscend LDO regulators offer exceptional thermal management and long-term reliability, making them ideal for high-performance applications.

LDO Family	Vin	Vout	Iq	Package/ Compatibility	Notes
XTM113xx	5.5v – 40V	Adjustable, 1.6V, 1.8V, 2.5V, 3.0V, 3.3V, 5.0V	50 uA	SOT-23/ TPS763xx-q1	Vout accuracy (+/- 1%), Max Iout (300 mA)
XTM100x	5.5 – 40v	5V	50 uA	TO-252-5 or PG-DSO-8	Vout accuracy (+/- 1%), Max Iout (300 mA)
XTM101x	5.5v – 40v	Adjustable	Iq (varies)	ETSSOP P-16/ TPS7701	Vout accuracy (+/- 1%), Max Iout (varies)
XTM103x	2.2v – 6v	Adjustable	50 uA	SOT-223/ TPS1117LV	Vout accuracy (+/- 1%), Max Iout (1A, 0.5A)
XTM104x	3 - 40V	Adjustable	5 uA	TO-252-5/ TPS7B82	Vout accuracy (+/- 1%), Max Iout (300mA)

### Features

- Wide input voltage range
- High voltage tolerance
- High output accuracy
- Low power, small Iq
- Low BOM cost
- Wide temp range (-40-150C)
- Short, OCP, OTP check

### Applications

- Auto ECU power supply in BCM, Chassis, IVI domain.
- Sensor power supply
- Active antenna
- Industrial/Commercial

### Why Choose Xscend Power Solutions?

**Automotive & Industrial Power Solutions:** Xscend power products are engineered to meet the stringent demands of automotive and industrial applications, providing exceptional power efficiency, reliability, and performance across a wide range of critical systems.

**Innovation in Power Management:** Xscend delivers advanced power solutions with features like low quiescent current, wide input voltage ranges, and comprehensive protection, ensuring optimal performance.

**Cost-Efficiency:** Our solutions reduce BOM costs and increase integration flexibility, helping customers achieve optimal performance at lower cost.

**Discover more about Xscend's innovative semiconductor solutions at [Xscend.com](https://www.xscend.com).**

Xscend's DC-DC converters are designed to deliver exceptional performance across automotive, industrial, and consumer electronics applications. These products combine high efficiency, a wide input voltage range, and low quiescent current to provide reliable power in even the most demanding environments. Advanced protection features such as overcurrent, short circuit, and thermal shutdown ensure safe and stable operation.

Part	Type	Max Freq (MHz)	Standby Current (uA)	Output Current (A)	Operating Voltage (V)	Compatible	Package
XPM2002	Buck	2.5	60	3	2.7-6	MPQ2166	QFN-18
XPM2001	Buck	2.5	60	2	2.7-6	MPQ2166	QFN-18
XPM2000	Buck	2.5	60	1	2.7-6	MPQ2166	QFN-18
XPM2012	Buck	2.5	60	3	3.8-36	LMR33630	HSOIC-8
XPM2011	Buck	2.5	60	2	3.8-36	LMR33630	HSOIC-8
XPM2010	Buck	2.5	60	1	3.8-36	LMR33630	HSOIC-8
XPM2021	Buck/Boost	2.5	60	1.2	2-36V	MAX20040	SWTQFN-20
XPM2020	Buck/Boost	2.5	60	0.6	2-36V	MAX20039	SWTQFN-20

### Features

- Sustainable current output
- Wide or narrow input voltage range
- High efficiency
- Low power, Small Iq
- Wide temp range (-40-150C)
- Short, OCP, OTP check

### Applications

- Auto SOC power supply
- IVI power supply
- SERDES power supply
- Start-stop system
- Home entertainment system
- Portable device
- Battery powered device

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