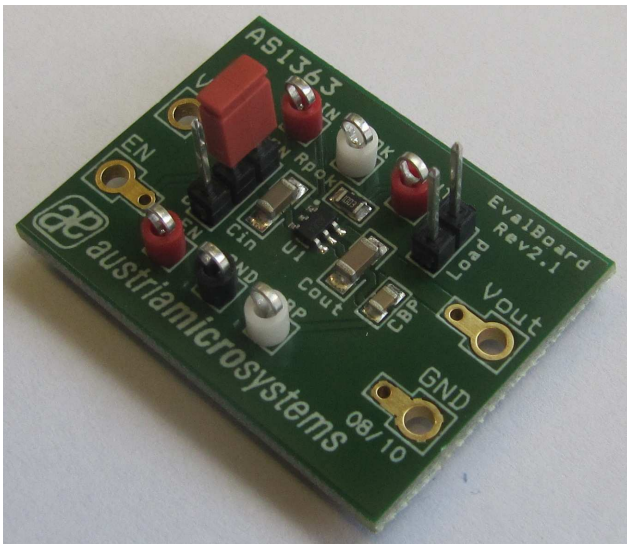
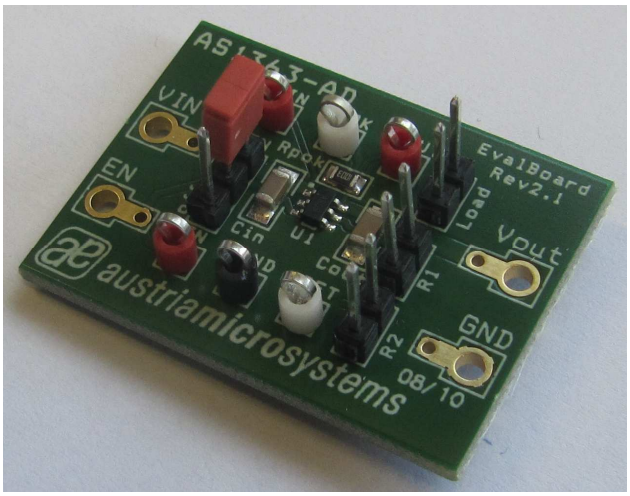
Demo Board Manual

AS1363

500mA, Low-Dropout Linear Voltage Regulator

www.austriamicrosystems.com/LDO/AS1363





General Description

Board Description

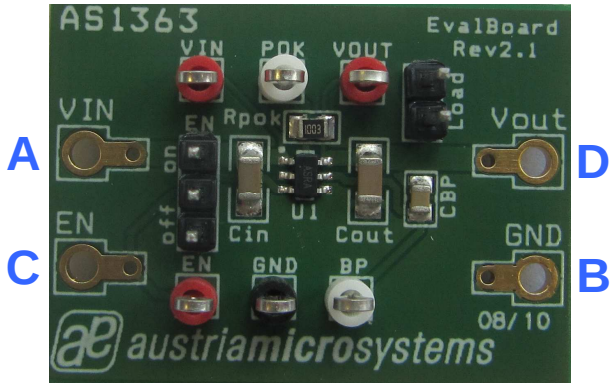


Figure 1: Board Description - Connectors

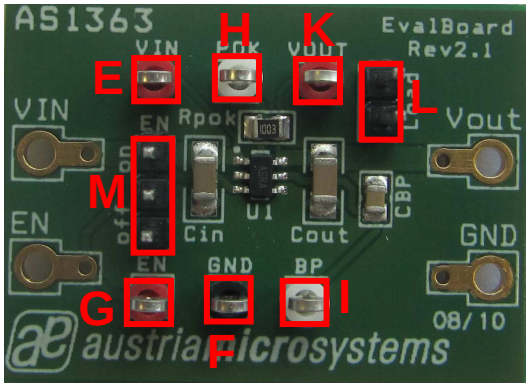
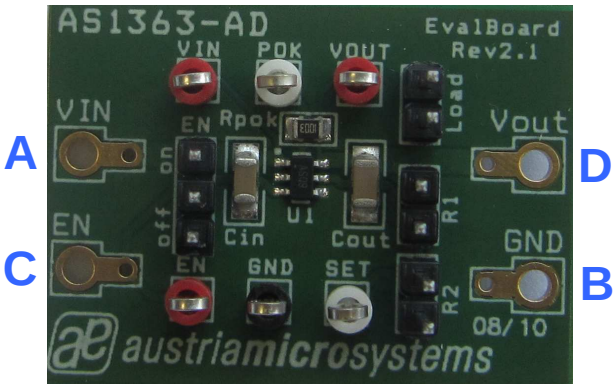
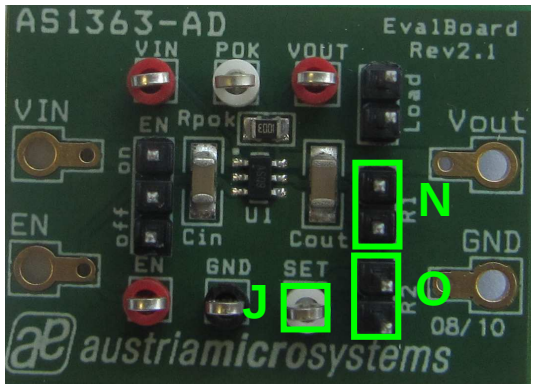


Figure 2: Board Description – Measurement Points





Connector Description

Label	Name	Description	Info
A	**VIN**	Supply Voltage	Supply voltage range from 2.0V to 5.5V
B	**GND**	Ground	
C	**EN**	Active High Enable Input	Set the digital input “high” for normal operation. For shutdown, set “low”
D	**VOUT**	Output Voltage	Output voltage range from 1.2V to 4.5V (fixed) Output voltage range from 1.2V to 5.3V (adjustable)

Measurement Point Description

Label	Name	Description	Info
E	**VIN**	Supply Voltage	Measurement Points
F	**GND**	Ground	
G	**EN**	Active High Enable Input	
H	**POK**	Open Drain POK Output	
I	**BP**	BP (fixed Vout version)	
J	**SET**	SET (adjustable Vout version)	
K	**VOUT**	Output Voltage	
L	**Load**	External load	
M	**EN**	Enable	ON: The AS1363 is enabled OFF: The AS1363 is disabled No Jumper: Connect a valid enable signal via external connector “C”.
N	**R1**	Resistor divider for adjustable Vout version	R1 between Vout and SET R2 between SET and GND
O	**R2**		

Getting Started

The AS1363 Demoboard is designed to work with the AS1363 fixed output voltage version.
The AS1363 fixed Vout version is available with 1.5V, 1.8V, 3.0V, 3.3V and 4.5V.

The AS1363-AD Demoboard is designed to work with the AS1363 adjustable output voltage version.
The AS1363-AD adjustable Vout version has a valid Vout range from 1.2V to 5.3V. This Vout is adjustable via the resistor divider R1/R2. A value for R2 in the range of 25kΩ to 100kΩ should be sufficient.
To use the factory preset Vout of 2.5V connect SET directly to GND (R1 = open; R2 = 0Ω).

Bill of Materials

Ref.	Function	Value	Description	Manufacturer	Mfg. Order Nr.
Cin	Input Capacitor	1µF	1206 / X7R / 10V	diverse	
Cout	Output Capacitor	2.2µF	1206 / X7R / 10V	diverse	
CBP*	Bypass Capacitor	10nF	0805/X7R	diverse	
RPOK	POK pull-up resistor	100kΩ	0805	diverse	
U1	LDO	ASRx	SOT23-6pin	Austriamicrosystems AG	AS1363-BSTT-xx

*) only for fixed Vout version

Layout of Demo Board

Board schematics and layout

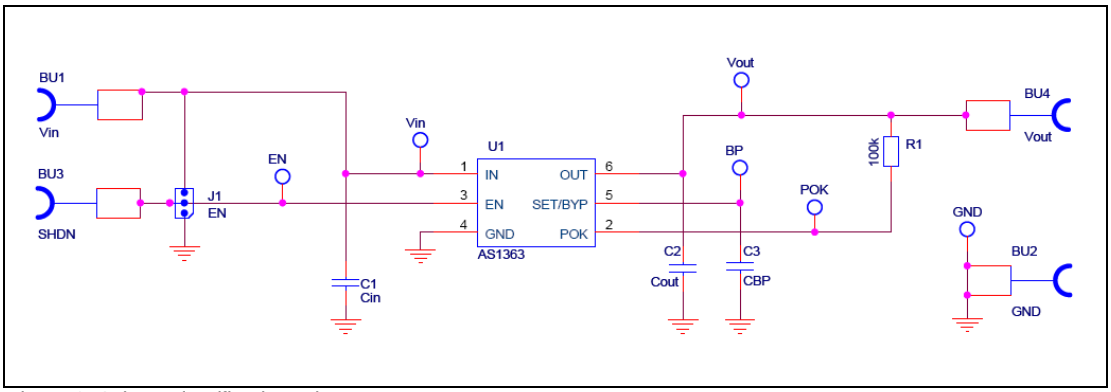


Figure 3: Schematics (fixed Vout)

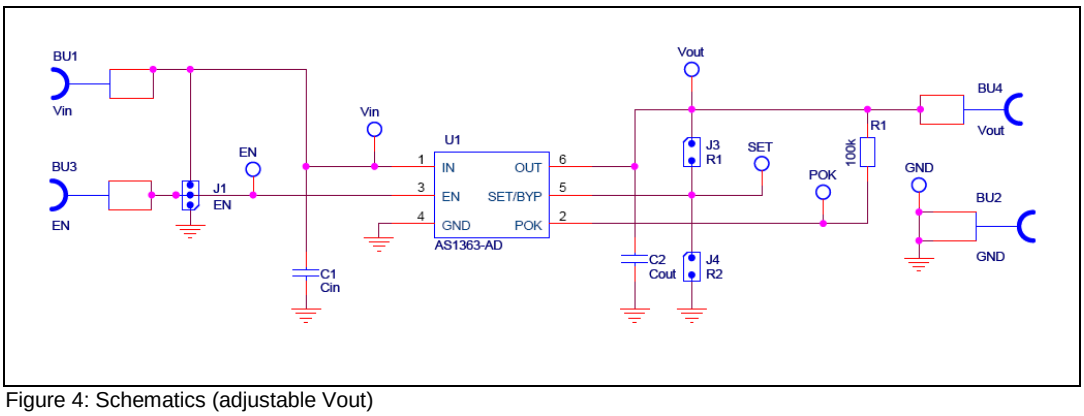
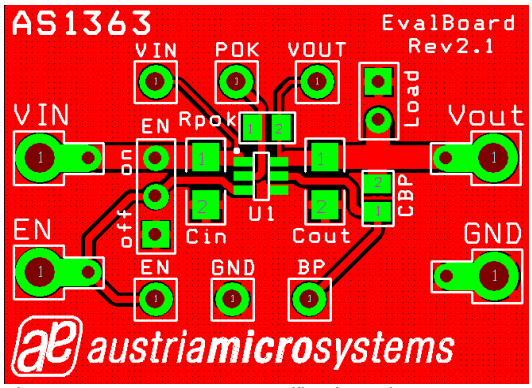


Figure 4: Schematics (adjustable Vout)



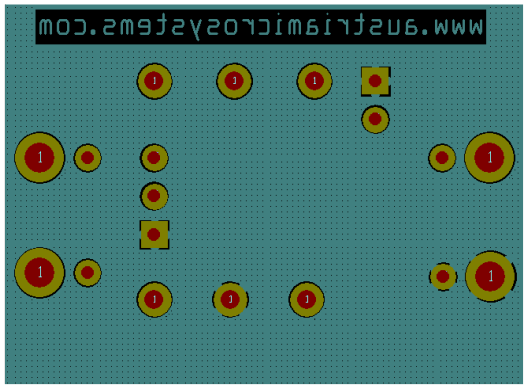
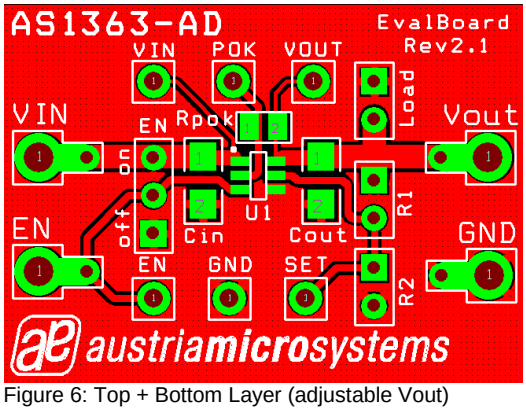


Figure 5: Top + Bottom Layer (fixed Vout)



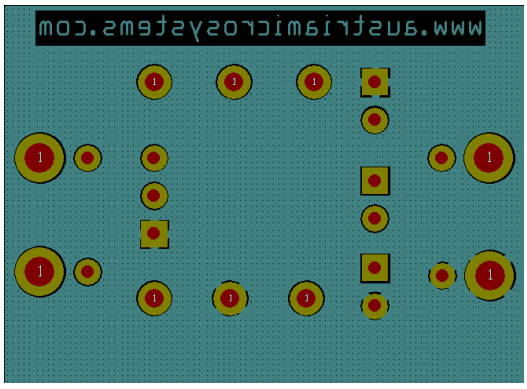


Figure 6: Top + Bottom Layer (adjustable Vout)

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