

**PRODUCT RELEASE**



## Description

The new converters of the R-78T series are the perfect drop-in replacement for the TI switching regulators that recently were announced to be end of life. The R-78T comes in three pinout options: /AC is equivalent to TI's EAC, /AL = EAL, /FC = EFC. Three output voltages are available as standard: 3.3V, 5V and 12V. Due to the 1.5A start-up overload capability, the R-78T can replace both 1A and 1.5A TI converters in most applications.

The R-78T can be ordered in trays or tape-and-reel.

Which TI part can be replaced with the new R-78T part?	
TI part	RECOM part
PT5100 series: <ul style="list-style-type: none"><li>• PT5101C</li><li>• PT5102C</li><li>• PT5103C</li><li>• PT5101L</li><li>• PT5102L</li><li>• PT5103L</li></ul>	R-78T series: <ul style="list-style-type: none"><li>• R-78T3.3-1.0/AC</li><li>• R-78T12-1.0/AC</li><li>• R-78T5.0-1.0/AC</li><li>• R-78T3.3-1.0/AL</li><li>• R-78T12-1.0/AL</li><li>• R-78T5.0-1.0/AL</li></ul>
PT78ST100 series: <ul style="list-style-type: none"><li>• PT78ST133S</li><li>• PT78ST105S</li><li>• PT78ST112S</li></ul>	R-78T series: <ul style="list-style-type: none"><li>• R-78T3.3-1.0/FC</li><li>• R-78T5.0-1.0/FC</li><li>• R-78T12-1.0/FC</li></ul>
78SR100 series: <ul style="list-style-type: none"><li>• 78SR105SC</li><li>• 78SR112SC</li></ul>	R-78T series: <ul style="list-style-type: none"><li>• R-78T5.0-1.0/FC</li><li>• R-78T12-1.0/FC</li></ul>

## Unique Selling Proposition

- Drop-in replacement for TI
- Low profile
- Wide input range
- Low cost
- Wide operating temperature range

## Target Customer

- TI customers
- Point of load applications
- Industrial controls

- Battery powered devices
- Hand-held equipment
- Fan controllers
- Embedded designs

## Competitor Analysis

	TI PT5100 series	TI PT78ST100	TI 78SR100	RECOM R-78T
Input Voltage Range <ul style="list-style-type: none"> <li>• Vo=3.3V</li> <li>• Vo=5V</li> <li>• Vo=12V</li> </ul>	9 – 26V 9 – 38V 16 – 38V	9 – 26V 9 – 38V 16 – 38V	7 – 30V 14.5 – 30V	7 – 42V 8 – 42V 15 – 42V
Efficiency <ul style="list-style-type: none"> <li>• Vo=3.3V</li> <li>• Vo=5V</li> <li>• Vo=12V</li> </ul>	82% 90% 94%	80% 85% 90%	85% 90%	88% 92% 95%
Operating Temperature Range	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C
Weight	4.5g (suffix C) 6.5g (suffix L)	6.5g	6.5g	4.5g