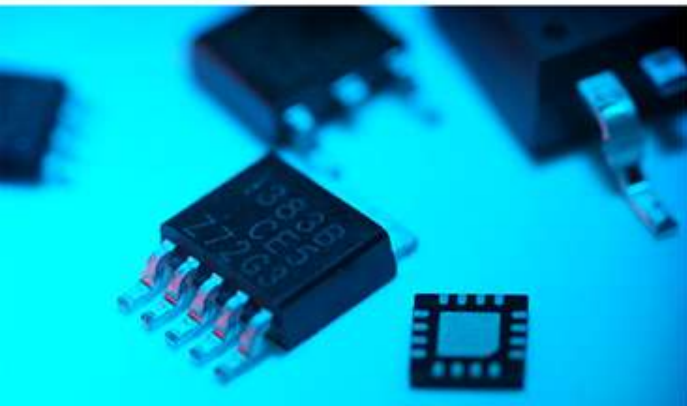




AIC Solutions for IoT Module



Agenda

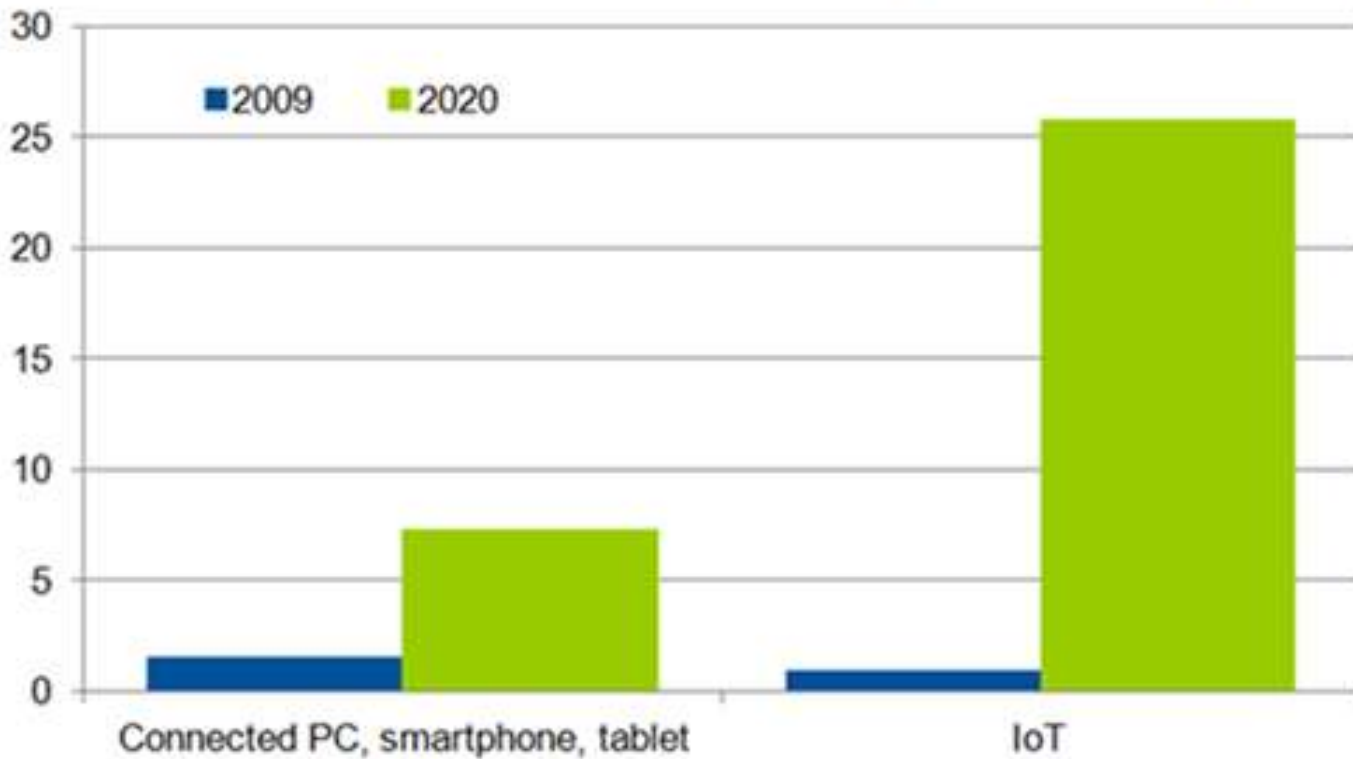
- **Market Status & Trend**
- **Market Forecast**
- **Supply Chain (Core chip, IDH, Key player)**
- **New Product Feature**
- **Application Power Block**
- **Power Solutions**
- **Product Roadmap**
- **Promotion Strategy**

Agenda

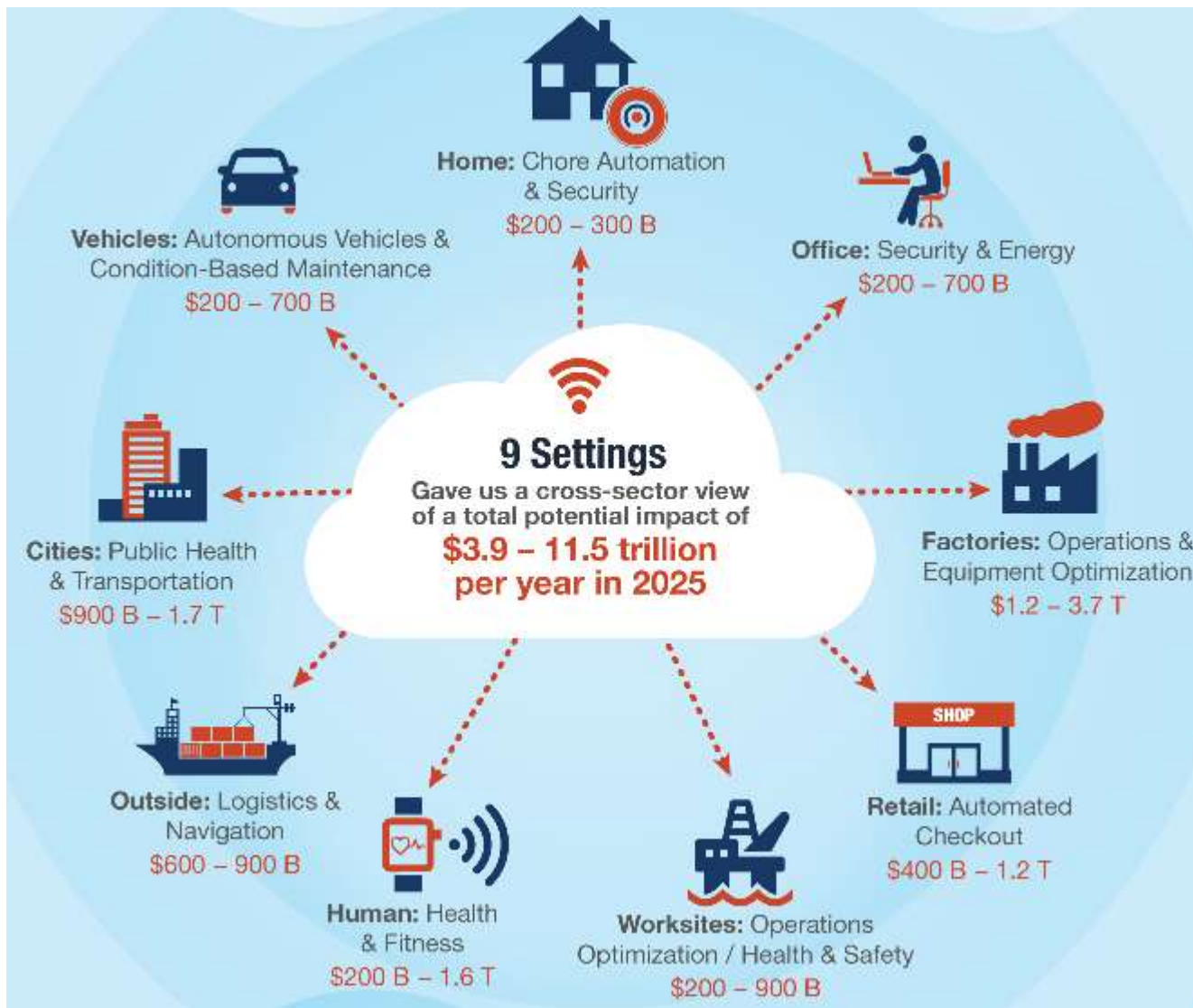
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Market Status & Trend

Total of Connected Devices, Billions of Units (Installed Base)



Market Status & Trend



Market Status & Trend

INDUSTRIAL Internet of Things



CONSUMER Internet of Things

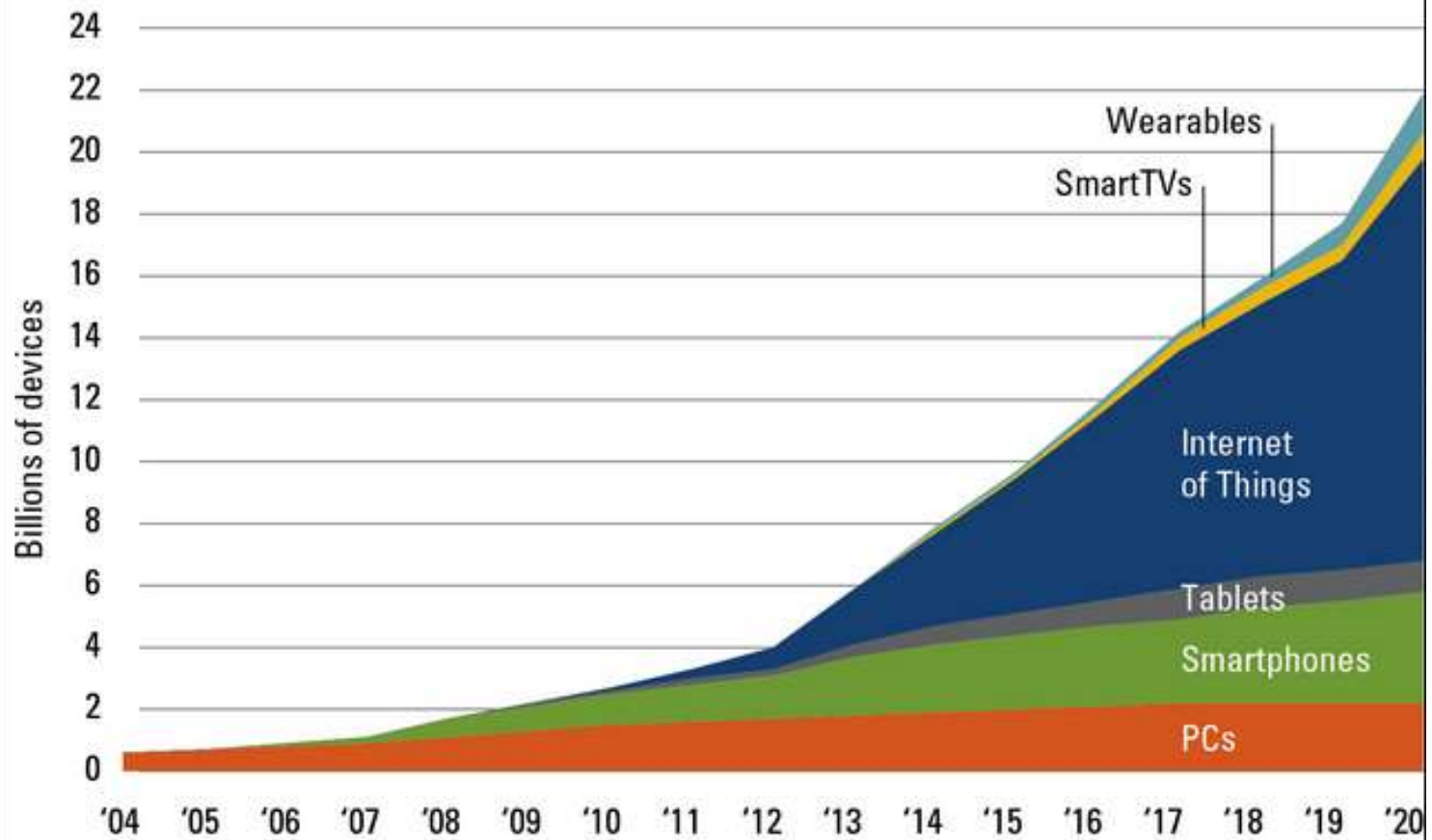


Agenda

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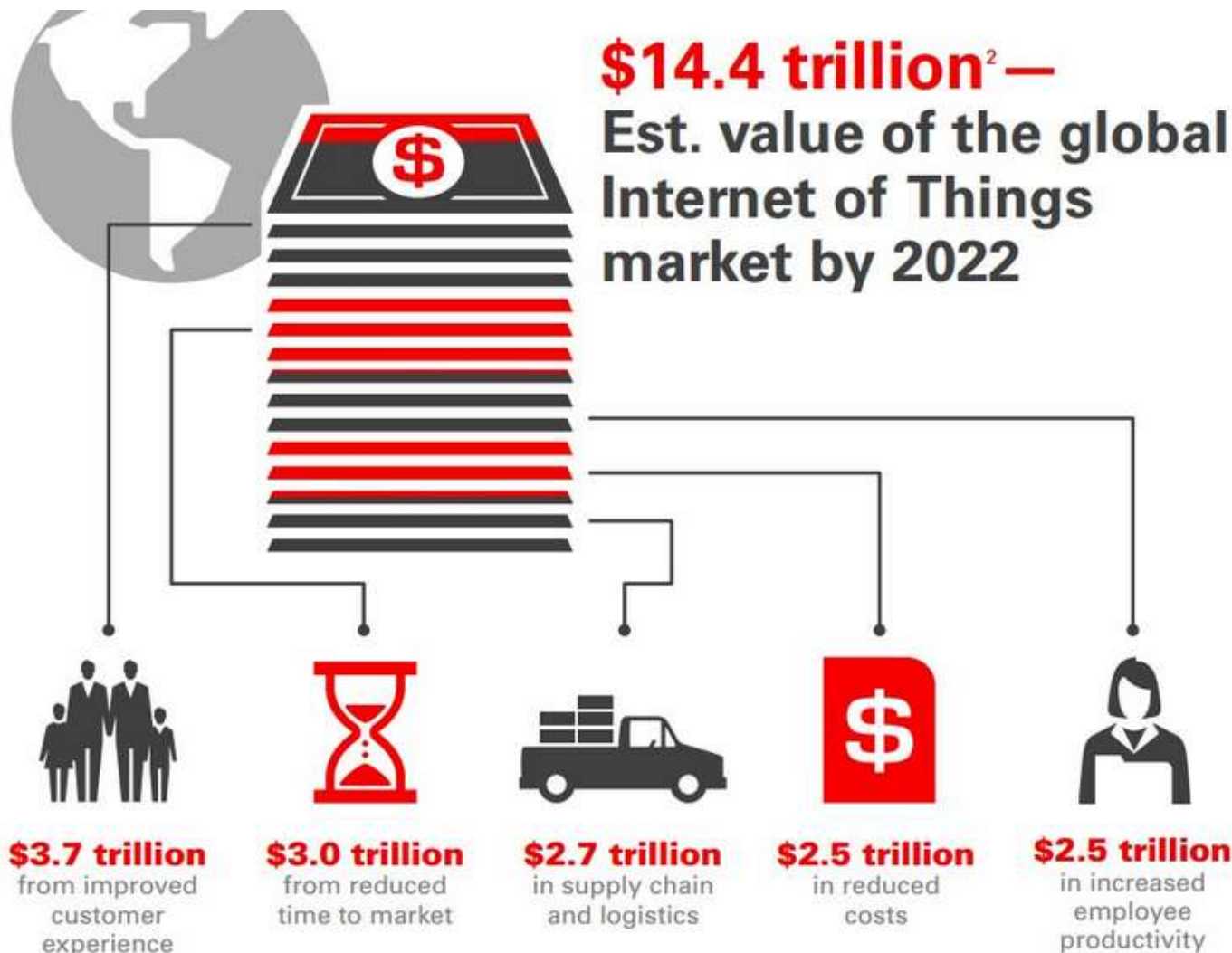
Market Forecast

FIGURE 1: Global internet device installed base forecast



Sources: Gartner, IDC, Strategy Analytics, Machina research, company filings, BII estimates

Market Forecast



Agenda

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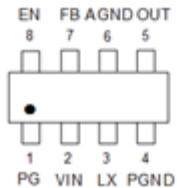
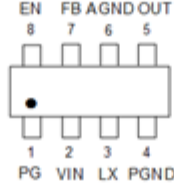
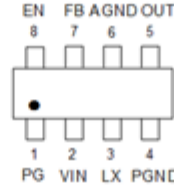
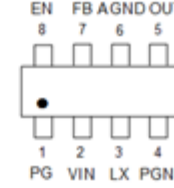
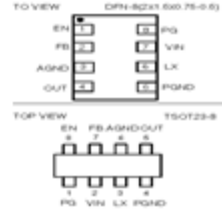
Supply Chain

Region	Key customer	Core chip vendor
Japan	 INNOVATOR IN ELECTRONICS 	    聯發科技  
China	  股票代碼: 600553  	    聯發科技  
Korea	  The Smartest Network Device  SmartHome & Security 	    聯發科技  
Taiwan	  	    聯發科技  

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New Product Feature

Part Number	AIC2253	AIC2256	AIC2259	AIC2258	AIC2262
Vin(Min)(V)	2.5	2.5	2.5	2.5	2.5
Vin(Max)(V)	6	6	6	6	6
Iout(Max)(A)	1	1	1	1	2
Switching Frequency(Min)(kHz)	1500	3000	1500	1500	1500
Switching Frequency(Max)(kHz)	1500	3000	1500	1500	1500
Iq(Typ)(uA)	8	17	17	17	17
Control Mode	AOT	AOT	AOT	AOT	AOT
Operating Temperature Range(C)	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Process	W/B	W/B	W/B	F/C	F/C
Package	TSOT-23-8	TSOT-23-8	TSOT-23-8	TSOT-23-8	DFN-8 TSOT-23-8
Remark	P2P MP2159 Sampling in Nov. 16'	P2P MP2159	P2P MP2159 Sampling now		参閱MP2162 Sampling now
Outline	 <p>EN FB AGND OUT 8 7 6 5 1 2 3 4 PG VIN LX PGND</p>	 <p>EN FB AGND OUT 8 7 6 5 1 2 3 4 PG VIN LX PGND</p>	 <p>EN FB AGND OUT 8 7 6 5 1 2 3 4 PG VIN LX PGND</p>	 <p>EN FB AGND OUT 8 7 6 5 1 2 3 4 PG VIN LX PGND</p>	 <p>TO VIEW DFN-8(500 75-0-8) EN FB AGND OUT PG VIN LX PGND TOP VIEW TSOT23-8 EN FB AGND OUT PG VIN LX PGND</p>

New Product Feature

- **AOT**

Adaptive On Time control that provides a fast transient response without external compensation component.

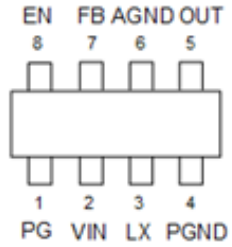
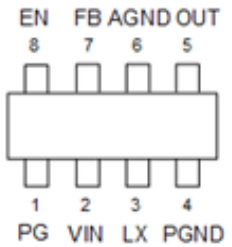
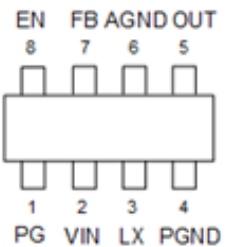
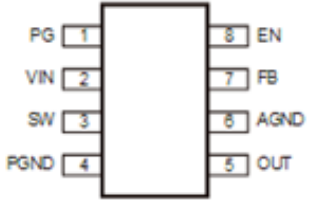
- **Sync.**

The device features an internal synchronous rectifier for high efficiency, it requires no external Schottky diode.

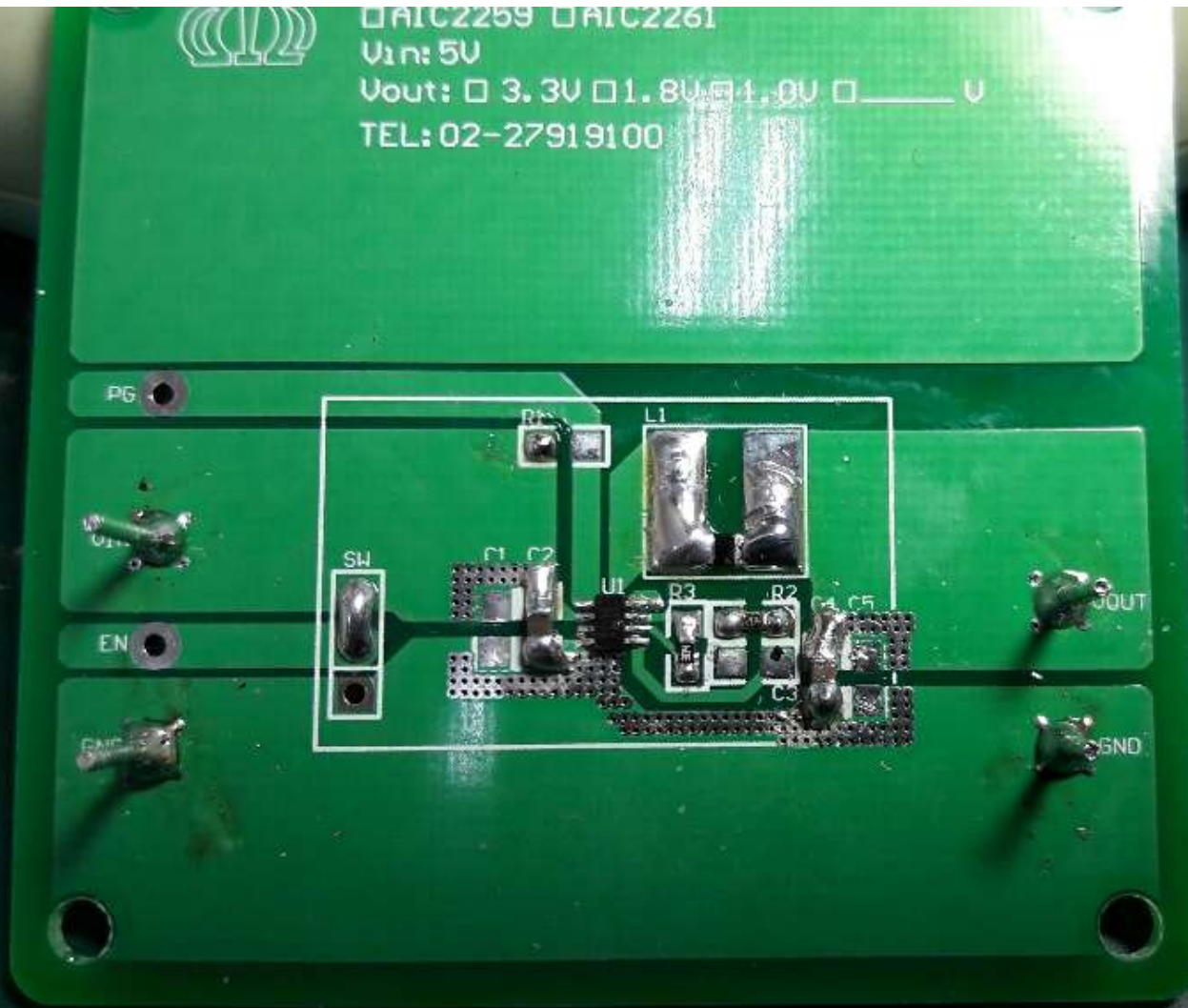
- **Small Package**

TSOT-23-8

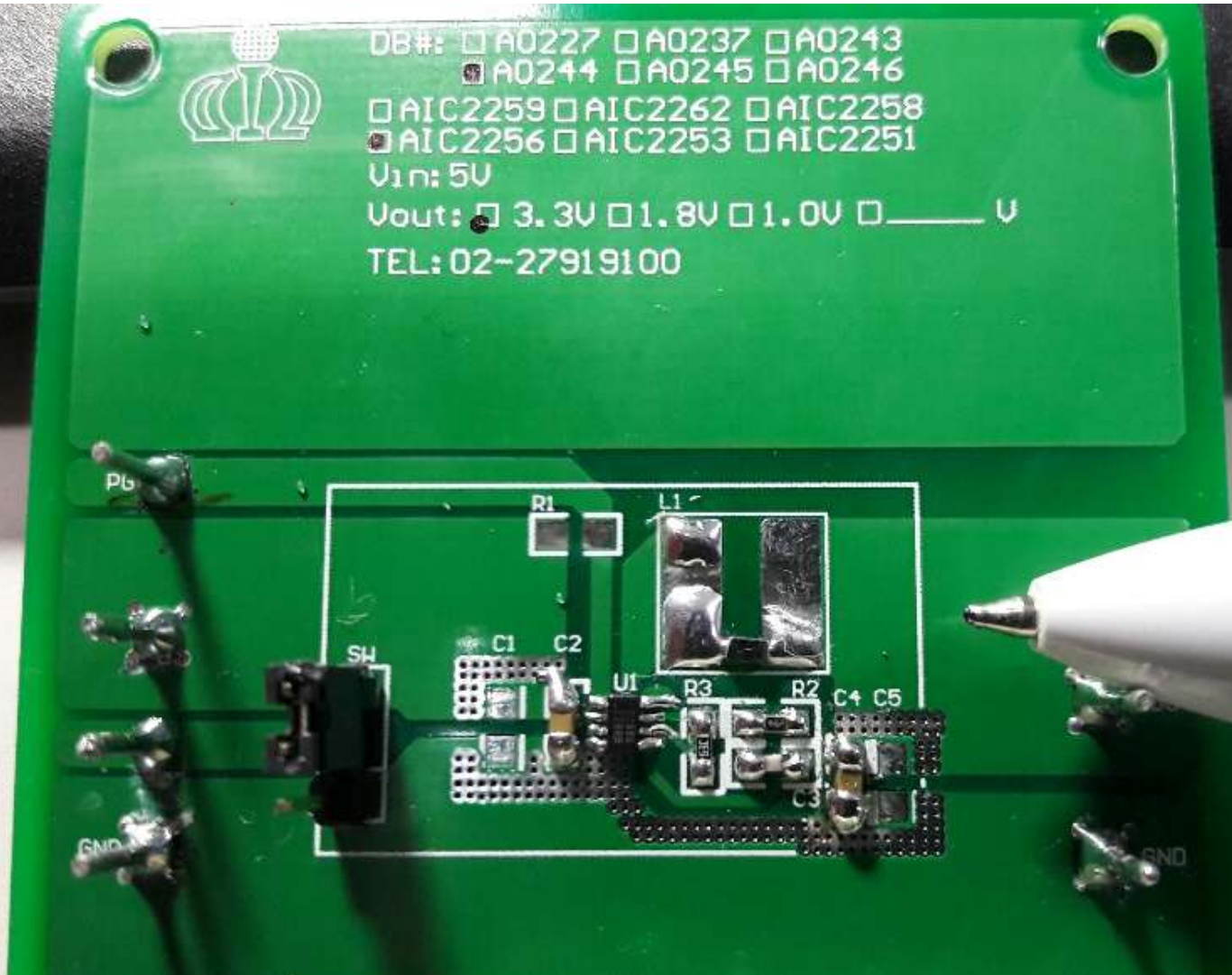
New Product Feature

Part Number	AIC2259	AIC2256	AIC2253	MP2159
Vin(Min)(V)	2.5	2.5	2.5	2.5
Vin(Max)(V)	6	6	6	6
Iout(Max)(A)	1	1	1	1
Switching Frequency(Min)(kHz)	1500	★ 3000	1500	1500
Switching Frequency(Max)(kHz)	1500	★ 3000	1500	1500
Iq(Typ)(uA)	17	17	★ 8	17
Control Mode	AOT	AOT	AOT	COT
Operating Temperature Range(C)	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Package	TSOT-23-8	TSOT-23-8	TSOT-23-8	TSOT-23-8
Remark	P2P with MP2159 Sampling now	P2P with MP2159	P2P with MP2159 Sampling now	
Outline				

New Product Feature



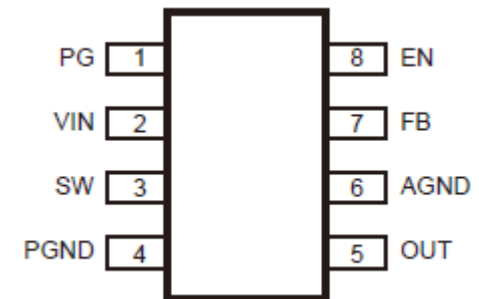
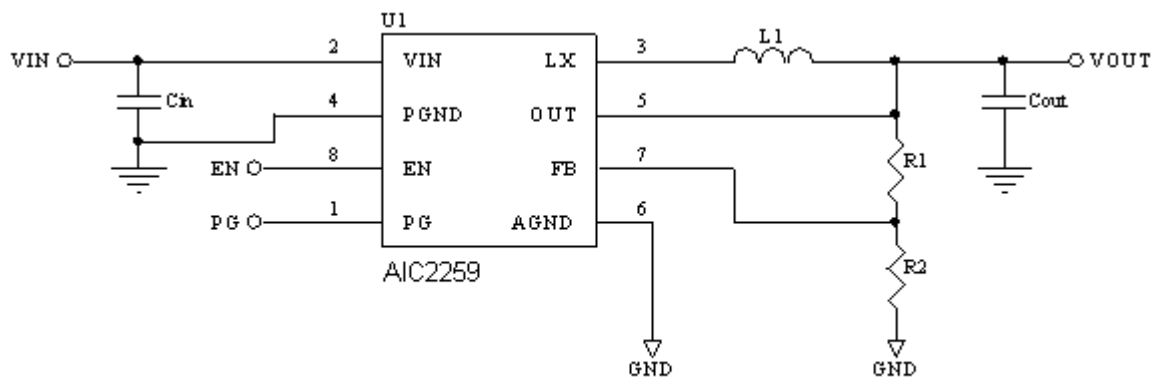
New Product Feature



New Product Feature

Typical application circuit

PIN configuration

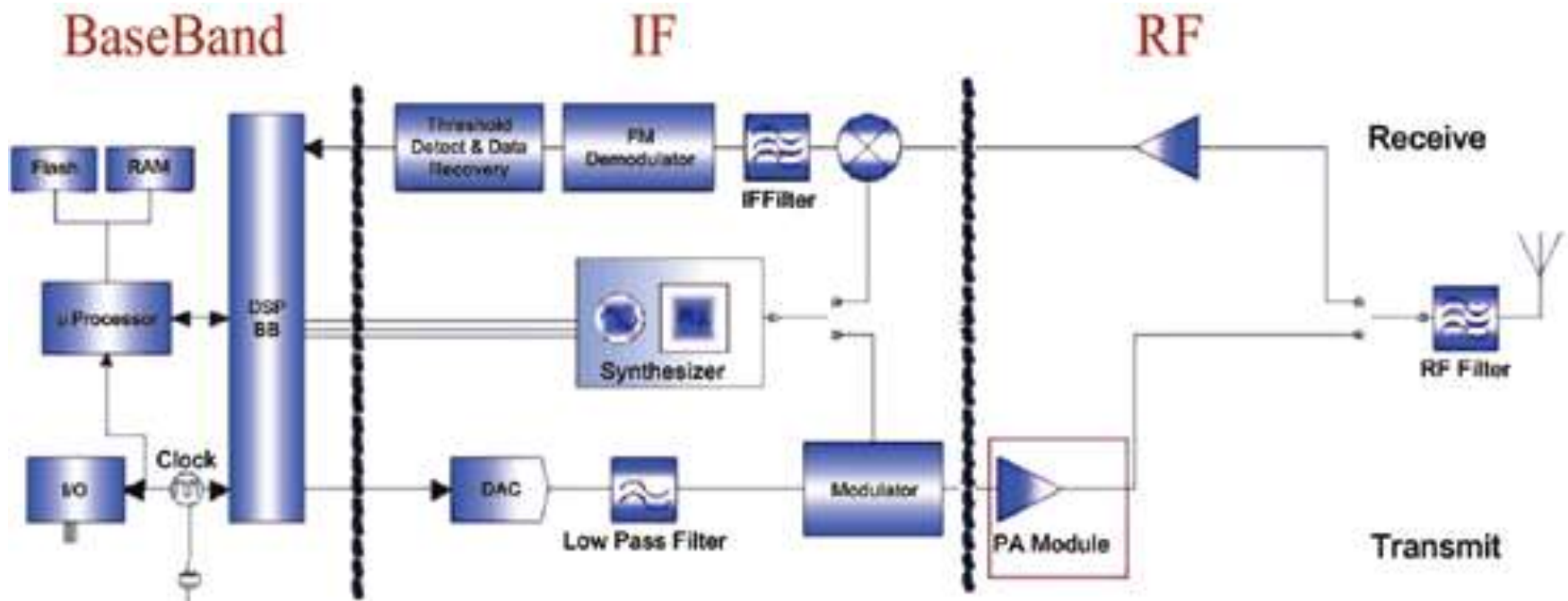


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Application Power Block

IoT RF Module



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Power Solutions

IoT Module



2.7V~3.6V

VBAT



AIC2341
1A
Buck Boost



3.3V for RF MCU

3V

VBAT



AIC3412
1A
Sync Boost



3.3V for RF MCU

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Promotion Strategy

- **AOT**
- **Competitive Performance**
 - **High Efficiency**
 - **Low Ripple**
 - **Low Quiescent Current**
- **Competitive Pricing**
- **P2P with main stream product**

Q & A !

