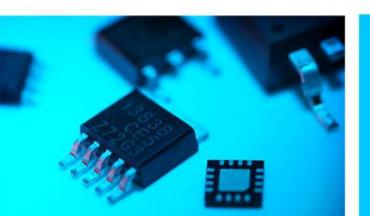


AIC Solutions for Smart Medical





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



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Global Smart Medical Devices Revenue

By Region, 2016 (US\$ Mn)



Source: TMR Analysis, 2016



Pulse Oximeter



• **ECG**



Blood glucose meter



Blood Pressure Monitors









	*	* 1	40	A
(in	3	mil	IOI	75)

(in \$ millions)		Medical Technology Revenue				Market Share CAGR		
Company Name		2010	0.5000	2013	2000000	2014	2014	2010-2014
Medironic COVIDIEN	\$	16,897	\$	18,200	\$	28,229	7.8%	13.7%
Johnson-Johnson		26,611		28,490		27,522	7.6%	0.8%
%		16,897		18,200		18,299	5.0%	2.0%
SIEMENS		16,660		17,842		15,428	4.3%	-1.9%
CardinalHealth		8,750		10,060		11,217	3.1%	6.4%
PHILIPS		11,410		12,719		11,147	3.1%	-0.6%
Roche		10,020		11,308		10,988	3.0%	2.3%
Baxter		7,203		8,695		9,972	2.8%	8.5%
_stryker*		7,320		9,021		9,675	2.7%	7.2%
(D DANAHER		10,208		8,951		9,379	2.6%	-2.1%
Total Top 10		131,976		143,486		151,856	41.9%	3.6%
11-25		64,992		72,089		74,776	20.6%	3.6%
26-50		39,025		49,230		50,843	14.0%	6.8%
Remaining		42,137		71,887		85,041	23.5%	19.2%
Total Market	\$	278,130	\$	336,692	\$	362,516	100.0%	6.8%

Source: Bloomberg, Company Filings, PMCF Analysis

Photo credit: P&M Corporate

From 2010-2014, medical device revenue growth increased nearly 7 %.



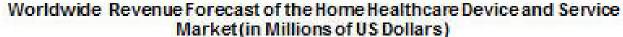
Market Status & Trend

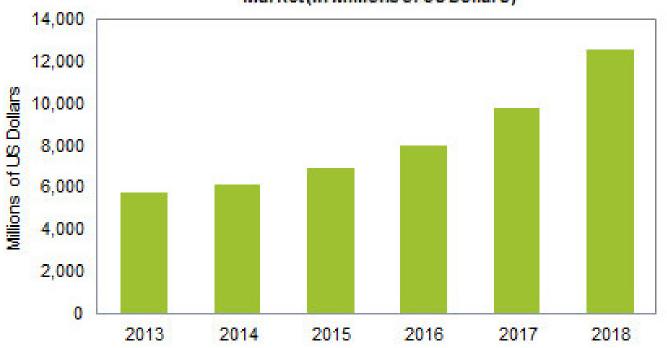


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Market Forecast







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Supply Chain

Region	Key customer	Core chip vendor		
Japan	OMRON Sensing tomorrow™	₩ RENESAS		
_	TANITA	N/P HOLTEK		
Taiwan	TaiDoc DELBio Caring for your life.	₩ RENESAS		
	BIONING APEX PROTECTINOLOGY CORP	N/P HOLTEK		



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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
	DOD 3 (DO150		DOD 3 (DO150		TSOT-23-8
Remark	P2P MP2159	P2P MP2159	P2P MP2159		参阅MP2162
	Sampling in Nov. 16'		Sampling now		Sampling now
Outline	EN FB AGND OUT 8 7 6 5 1 2 3 4 PG VIN LX PGND	EN FB AGND OUT 8 7 6 5 1 2 3 4 PG VIN LX PGND	EN FB AGND OUT 8 7 6 5 1 2 3 4 PG VIN LX PGND	EN FBAGNDOUT 8 7 6 5 1 2 3 4 PG VIN LX PGND	TOP VEW TOP



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.

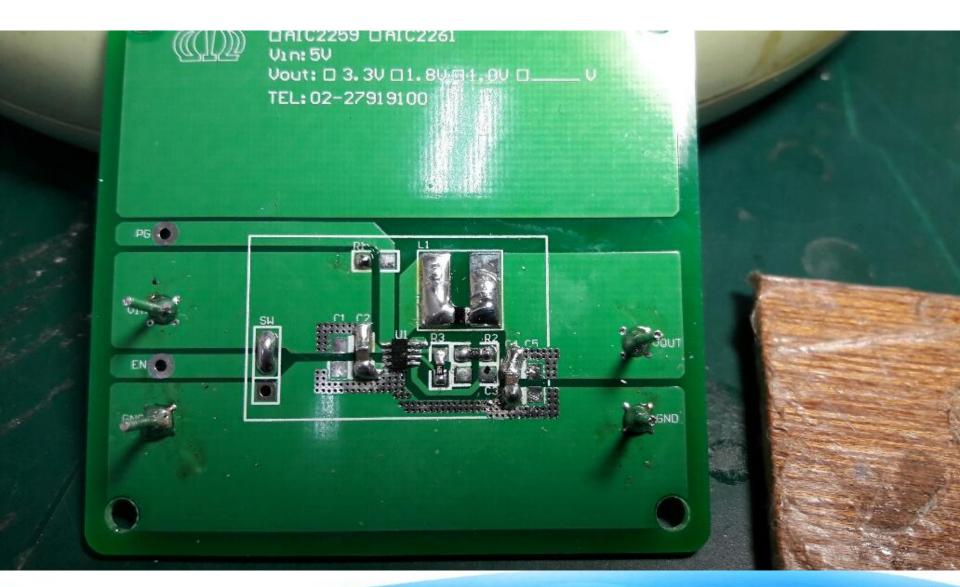
Small Package

TSOT-23-8



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
Damada	P2P with MP2159	P2P with MP2159	P2P with MP2159	
Remark	Sampling now	PZP With MPZ139	Sampling now	
Outline	EN FB AGND OUT 8 7 6 5 1 2 3 4 PG VIN LX PGND	EN FB AGND OUT 8 7 6 5 1 2 3 4 PG VIN LX PGND	EN FB AGND OUT 8 7 6 5 1 2 3 4 PG VIN LX PGND	PG 1 8 EN VIN 2 7 FB SW 3 6 AGND PGND 4 5 OUT





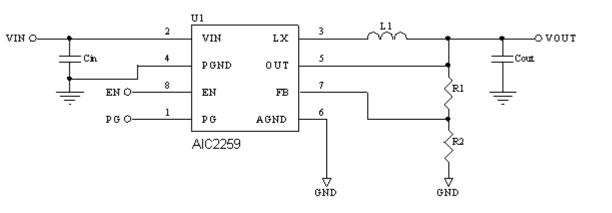


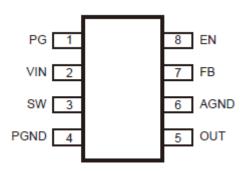




Typical application circuit

PIN configuration





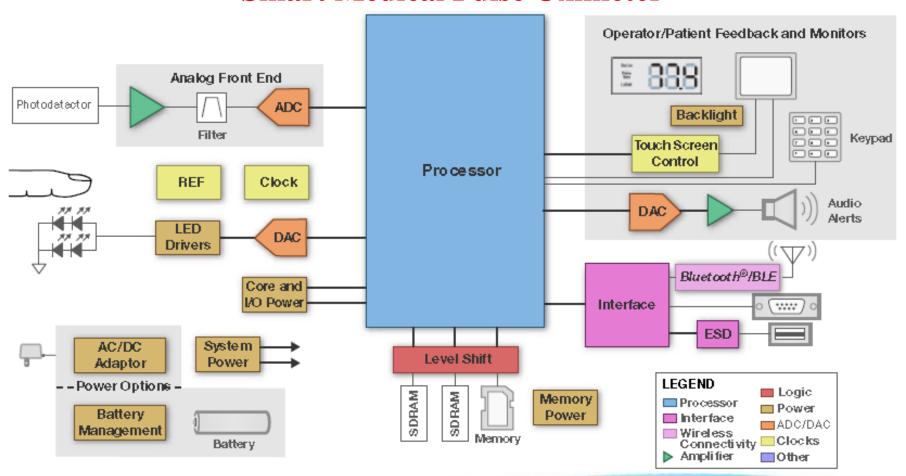


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Application Power Block

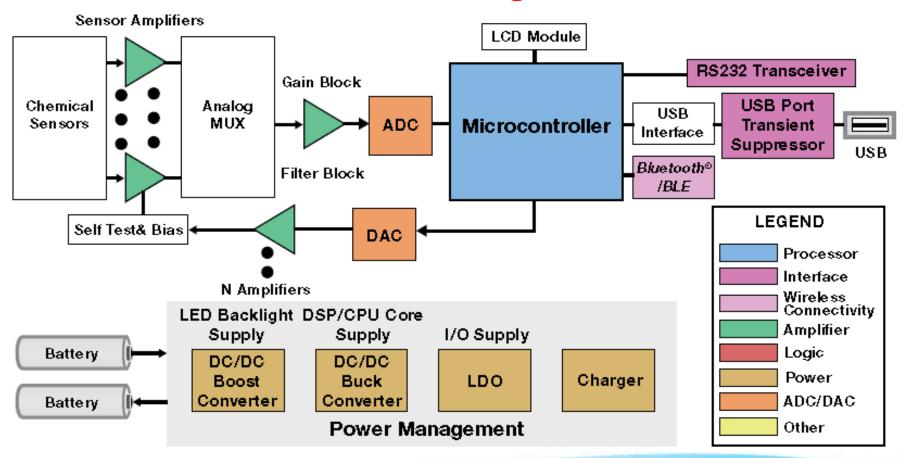
Smart Medical Pulse Oximeter





Application Power Block

Smart Medical Blood glucose meter



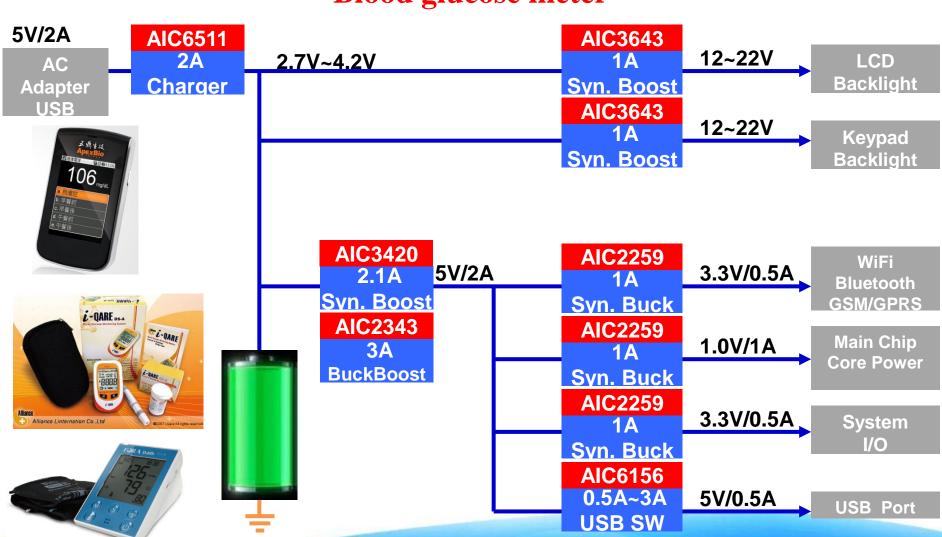


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Power Solutions

Blood glucose meter



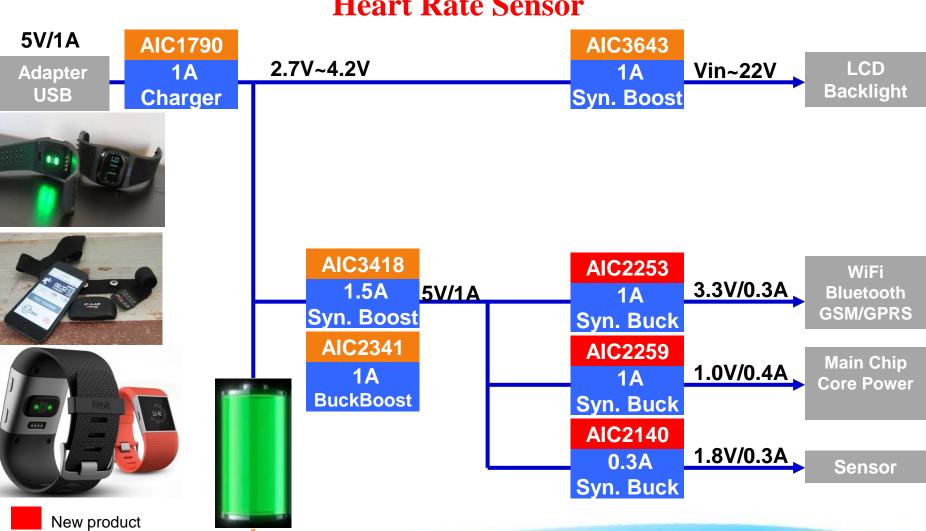
2017 AIC REGIONAL SALES MEETING



Existing product

Power Solutions

Heart Rate Sensor





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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!

