



Product Selector Guide

EEPROM

Two-Wire Serial EEPROM

Density	Org	Product No.	Vcc	Speed (KHz)	Package (8-pin) ^[1]	Status ^[2]	Comment ^[3]
2K	256 x 8	GT24C02	1.7V-5.5V	1000	SOIC, TSSOP, UDFN, MSOP, PDIP	Production	
4K	512 x 8	GT24C04	1.7V-5.5V	1000	SOIC, TSSOP, UDFN, PDIP, CSP	Production	
8K	1K x 8	GT24C08	1.7V-5.5V	1000	SOIC, TSSOP, UDFN, MSOP, CSP	Production	
16K	2K x 8	GT24C16	1.7V-5.5V	1000	SOIC, TSSOP, UDFN, CSP	Production	
32K	4K x 8	GT24C32A	1.7V-5.5V	1000	SOIC, TSSOP, UDFN, MSOP, CSP	Production	
		GT24C32	1.8V-5.5V	1000	SOIC, TSSOP, UDFN, MSOP	NRND	
64K	8K x 8	GT24C64	1.7V-5.5V	1000	SOIC, TSSOP, UDFN, MSOP, CSP	Production	
		GT24C128A	1.7V-5.5V	1000	SOIC, TSSOP, UDFN, CSP	Production	
128K	16K x 8	GT24C128	1.8V-5.5V	1000	SOIC, TSSOP, UDFN	NRND	
		GT24C256	1.7V-5.5V	1000	SOIC, TSSOP, UDFN	Production	
512K	64K x 8	GT24C512	1.7V-5.5V	1000	SOIC, TSSOP	Production	

SPI (Serial Peripheral Interface) EEPROM

Density	Org	Product No.	Vcc	Speed (MHz)	Package (8-pin) ^[1]	Status ^[2]	Comment ^[3]
1K	128 x 8	GT25C01	1.8V-5.5V	10	SOIC, TSSOP	Production	
2K	256 x 8	GT25C02	1.8V-5.5V	10	SOIC, TSSOP	Production	
4K	512 x 8	GT25C04	1.8V-5.5V	10	SOIC, TSSOP	Production	
8K	1K x 8	GT25C08	1.7V-5.5V	20	SOIC, TSSOP, UDFN, CSP	Production	
16K	2K x 8	GT25C16	1.7V-5.5V	20	SOIC, TSSOP, UDFN, CSP	Production	
32K	4K x 8	GT25C32A	1.7V-5.5V	20	SOIC, TSSOP, UDFN, CSP	Production	
		GT25C32	1.8V-5.5V	10	SOIC, TSSOP, UDFN	NRND	
64K	8K x 8	GT25C64	1.7V-5.5V	20	SOIC, TSSOP, CSP	Production	
128K	16K x 8	GT25C128A	1.7V-5.5V	20	SOIC, TSSOP, UDFN	2011 Q4	
		GT25C128	1.8V-5.5V	10	SOIC, TSSOP	Production	
256K	32K x 8	GT25C256	1.7V-5.5V	20	SOIC, TSSOP, UDFN	Production	

Microwire Serial EEPROM

Density	Org	Product No.	Vcc	Speed (MHz)	Package (8-pin) ^[1]	Status ^[2]	Comment ^[3]
1K	128 x 8/64 x 16	GT93C46A	1.8V-5.5V	3	SOIC, TSSOP, PDIP	Production	
		GT93C46	1.8V-5.5V	3	SOIC, TSSOP	NRND	
2K	256 x 8/128 x 16	GT93C56A	1.8V-5.5V	3	SOIC, TSSOP	Production	
		GT93C56	1.8V-5.5V	3	SOIC, TSSOP	NRND	
4K	512 x 8/256 x 16	GT93C66A	1.8V-5.5V	3	SOIC, TSSOP, PDIP	Production	
		GT93C66	1.8V-5.5V	3	SOIC, TSSOP	NRND	
8K	1K x 8/512 x 16	GT93C76	1.8V-5.5V	3	SOIC, TSSOP	Production	
16K	2K x 8/1K x 16	GT93C86	1.8V-5.5V	3	SOIC, TSSOP	Production	

Application Specific EEPROM

Density	Org	Product No.	Vcc	Speed (KHz)	Package (8-pin) ^[1]	Status ^[2]	Comment ^[3]
2K	256 x 8	GT34C02A	1.7V-5.5V	1000	TSSOP, UDFN	Production	RSWP
		GT34C02	1.7V-3.6V	400	TSSOP, UDFN	NRND	RSWP
2K	256 x 8	GT34TS02	2.7V-3.6V	400	UDFN	Production	RSWP

Notes:

- Contact Sales or local Sales Representatives for other package options availability.
- NRND = Not Recommend in New Design
- RSWP = Reversible Software Write Protection

Available in Industrial (-40°C to +85°C) temperature grade.

Datasheet Link: <http://www.giantec-semi.com/products-EEPROM.html>

Ordering Informations: Refer to datasheet

Contact Sales or local Sales Representatives for any inquiry





Smart Cards

Two-Wire Serial EEPROM

Density	Org	Product No.	Vcc	Speed (KHz)	Package ^[1]	Status	Comment
2K	256 x 8	GT24C02	1.8V-5.5V	1000	wafer, module	Production	
16K	2K x 8	GT24C16	1.8V-5.5V	1000	wafer, module	Production	
32K	4K x 8	GT24C32	1.8V-5.5V	1000	wafer, module	Production	
64K	8K x 8	GT24C64	1.8V-5.5V	1000	wafer, module	Production	
128K	16K x 8	GT24C128	1.8V-5.5V	1000	wafer, module	Production	
256K	32K x 8	GT24C256	1.8V-5.5V	1000	wafer, module	Production	
512K	64K x 8	GT24C512	1.8V-5.5V	1000	wafer, module	Production	

Secure Serial Smart Card

Density	Org	Product No.	Vcc	Speed (MHz)	Package ^[1]	Status	Comment
2K	256 x 8	GT23SC4442	2.7V-5.5V	Up to 5	wafer, module	Production	
8K	1K x 8	GT23SC4428	2.7V-5.5V	Up to 5	wafer, module	Production	
16K	2K x 8	GT23SC1604	2.7V-5.5V	Up to 5	wafer, module	Production	

Contactless CPU Card

Prog.Den	Data Density	Product No.	Vcc	Baudrate (Kbitps)	Package ^[1]	Status	Comment
32K ROM	8K Byte EEPROM	GT23SC4456	N/A	Up to 847	wafer, module	Production	User ROM can be replaced w/EEPROM

Contactless Logic Card

Density	Org	Product No.	Vcc	Baudrate (Kbitps)	Package ^[1]	Status	Comment
1K	1K byte EEPROM	GT23SC4439	N/A	106	wafer, module	Production	ISO/IEC14443A
4K	4K byte EEPROM	GT23SC4469	N/A	106	wafer, module	Production	ISO/IEC14443A

Multi I/O Secure Flash Card (Support SIM application)

Density	Org	Product No.	Vcc	Speed (MHz)	Package ^[1]	Status	Comment
160K	160K byte Flash	GT23SC55160	2.7V-5.5V	30	wafer, module	Production	

Notes:

1. Contact Sales or local Sales Representatives for other package options availability.

Available in Commercial (0°C to +70°C) and Industrial (-40°C to +85°C) temperature grade.

Datasheet Link: <http://www.giantec-semi.com/products-SC.html>

Ordering Informations: Refer to datasheet

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Power Management

AC-DC Controller

Product No.	Standby Power	Driver	Output Power	Lm Compensation	Cable Compensation	Open Loop Protection	OTP	Output Short Protection	Package ^[1]	Status ^[2]
GT5010	<30mW	Mosfet	<=15W	Y	Y/Adjustable	Y	Option	Y	SOT23-6	Production
GT5011	<30mW	Mosfet	<=15W	Y	Y	Y	Option	Y	SOT23-3, TO92	Production
GT5012	<100mW	Mosfet	15W~30W	Y	Y/Adjustable	Y	Option	Y	SOT23-6, SOP8	S

Non-Synchronous DC-DC Step-down Controller

Product No.	Vin	Load Current	ISW Limit(Typ.)	IQ(Typ.)	RDS On	Feedback Voltage	Switching Frequency	Soft Start	Package ^[1]	Status ^[2]
GT5110	4.5V~24V	2A	2.9A	1.0mA	0.2Ohm	1.25V	350KHz~2000KHz	Internal	SOP8, HSOP8	Production

Synchronous DC-DC Step-down Controller

Product No.	Vin	Load Current	ISW Limit(Typ.)	IQ(Typ.)	RDS On	Feedback Voltage	Switching Frequency	Soft Start	Package ^[1]	Status ^[2]
GT5182	4.5V~24V	2A	3.4A	1.0mA	0.12Ohm	1.25V	350KHz~2000KHz	Internal	SOP8, HSOP8	Production

LED Driver

Product No.	Vin	Load Current	Dimming Mode	Operating Temperature	RDS On	Inside Switch	Efficiency	Switch Frequency	Package ^[1]	Status ^[2]
GT5304	5V~40V	1.5A	PWM and Analog	-45°C to +125°C	0.25Ohm	High-side	97%	90KHz~1.2MHz	SOP8,HSOP8	S
GT5315	5V~40V	0.35A	PWM and Analog	-45°C to +125°C	0.6Ohm	Low-side	97%	90KHz~1.2MHz	SOT23-5, SOP8	S

Notes:

- Contact Sales or local Sales Representatives for other package options availability.
- S = Sample

Datasheet Link: <http://www.giantec-semi.com/products-PM.html>

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Signal Chain-Operation Amplifier

Micro Power

Product No.	Channel	Shutdown	Power Supply	GBW	Slew Rate	Quiescent Supply Current	Input Bias Current	Input Offset Voltage(Max.)	Rail to Rail Input /Output	Package ^[1]	Status ^[2]
GT7155	1	N	2.2~5.5V	0.25MHz	0.15V/μs	7μA	10pA	5mV	Y/Y	SOT23-5, SOP8	S
GT7156	2	N	2.2~5.5V	0.25MHz	0.15V/μs	14μA	10pA	5mV	Y/Y	SOP8, MSOP8	Production

Low Power General Purpose

Product No.	Channel	Shutdown	Power Supply	GBW	Slew Rate	Quiescent Supply Current	Input Bias Current	Input Offset Voltage(Max.)	Rail to Rail Input /Output	Package ^[1]	Status ^[2]
GT7321	1	N	2.2~5.5V	1MHz	0.6V/μs	40μA	10pA	5mV	Y/Y	SOT23-5, SOP8	Production
GT7358	2	N	2.2~5.5V	1MHz	0.6V/μs	80μA	10pA	5mV	Y/Y	SOP8, MSOP8	Production
GT7359	2	N	2.2~5.5V	1MHz	0.6V/μs	80μA	10pA	5mV	Y/Y	SOP8, MSOP8	S
GT7324	4	N	2.2~5.5V	1MHz	0.6V/μs	160μA	10pA	5mV	Y/Y	TSSOP14, SOP14	S

Low Voltage

Product No.	Channel	Shutdown	Power Supply	GBW	Slew Rate	Quiescent Supply Current	Input Bias Current	Input Offset Voltage(Max.)	Rail to Rail Input /Output	Package ^[1]	Status ^[2]
GTV321	1	N	1.8~5.5V	1MHz	0.55V/μs	55μA	10pA	5.5mV	Y/Y	SOT23-5, SOP8	S
GTV358	2	N	1.8~5.5V	1MHz	0.55V/μs	110μA	10pA	5.5mV	Y/Y	SOP8, MSOP8	S

Zero Drift Precision I

Product No.	Channel	Shutdown	Power Supply	GBW	Slew Rate	Quiescent Supply Current	Input Bias Current	Input Offset Voltage(Max.)	Rail to Rail Input /Output	Package ^[1]	Status ^[2]
GT7131	1	N	2.2~5.5V	0.35MHz	0.1V/μs	20μA	80pA	0.02mV	Y/Y	SOT23-5, SOP8	S

Zero Drift Precision II

Product No.	Channel	Shutdown	Power Supply	GBW	Slew Rate	Quiescent Supply Current	Input Bias Current	Input Offset Voltage(Max.)	Rail to Rail Input /Output	Package ^[1]	Status ^[2]
GT7161	1	N	2.2~5.5V	1.5MHz	0.4V/μs	320μA	80pA	0.015mV	Y/Y	SOT23-5	S

Low Noise

Product No.	Channel	Shutdown	Power Supply	GBW	Slew Rate	Quiescent Supply Current	Input Bias Current	Input Offset Voltage(Max.)	Rail to Rail Input /Output	Package ^[1]	Status ^[2]
GT7101	1	N	2.2~5.5V	10MHz	4V/μs	2.5mA	100pA	4mV	N/Y	SOT23-5	2012 Q2
GT7171	1	N	2.2~5.5V	4.5MHz	4V/μs	90μA	10pA	5mV	Y/Y	SOT23-5	2012 Q2
GT7172	2	N	2.2~5.5V	4.5MHz	4V/μs	180μA	10pA	5mV	Y/Y	SOP8, MSOP8	2012 Q2

High Speed

Product No.	Channel	Shutdown	Power Supply	GBW	Slew Rate	Quiescent Supply Current	Input Bias Current	Input Offset Voltage(Max.)	Rail to Rail Input /Output	Package ^[1]	Status ^[2]
GT7111	1	N	2.2~5.5V	200MHz	125V/μs	3mA	10pA	10mV	Y/Y	SOT23-5	Production

High Band Width

Product No.	Channel	Shutdown	Power Supply	GBW	Slew Rate	Quiescent Supply Current	Input Bias Current	Input Offset Voltage(Max.)	Rail to Rail Input /Output	Package ^[1]	Status ^[2]
GT7121	1	N	2.2~5.5V	10MHz	4V/μs	800μA	10pA	5mV	Y/Y	SOT23-5	S
GT7122	2	N	2.2~5.5V	10MHz	4V/μs	1.6mA	10pA	5mV	Y/Y	SOP8, MSOP8	S

Notes:

1. Contact Sales or local Sales Representatives for other package options availability.

2. S = Sample

Datasheet Link: <http://www.giantec-semi.com/products-signal.html>

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