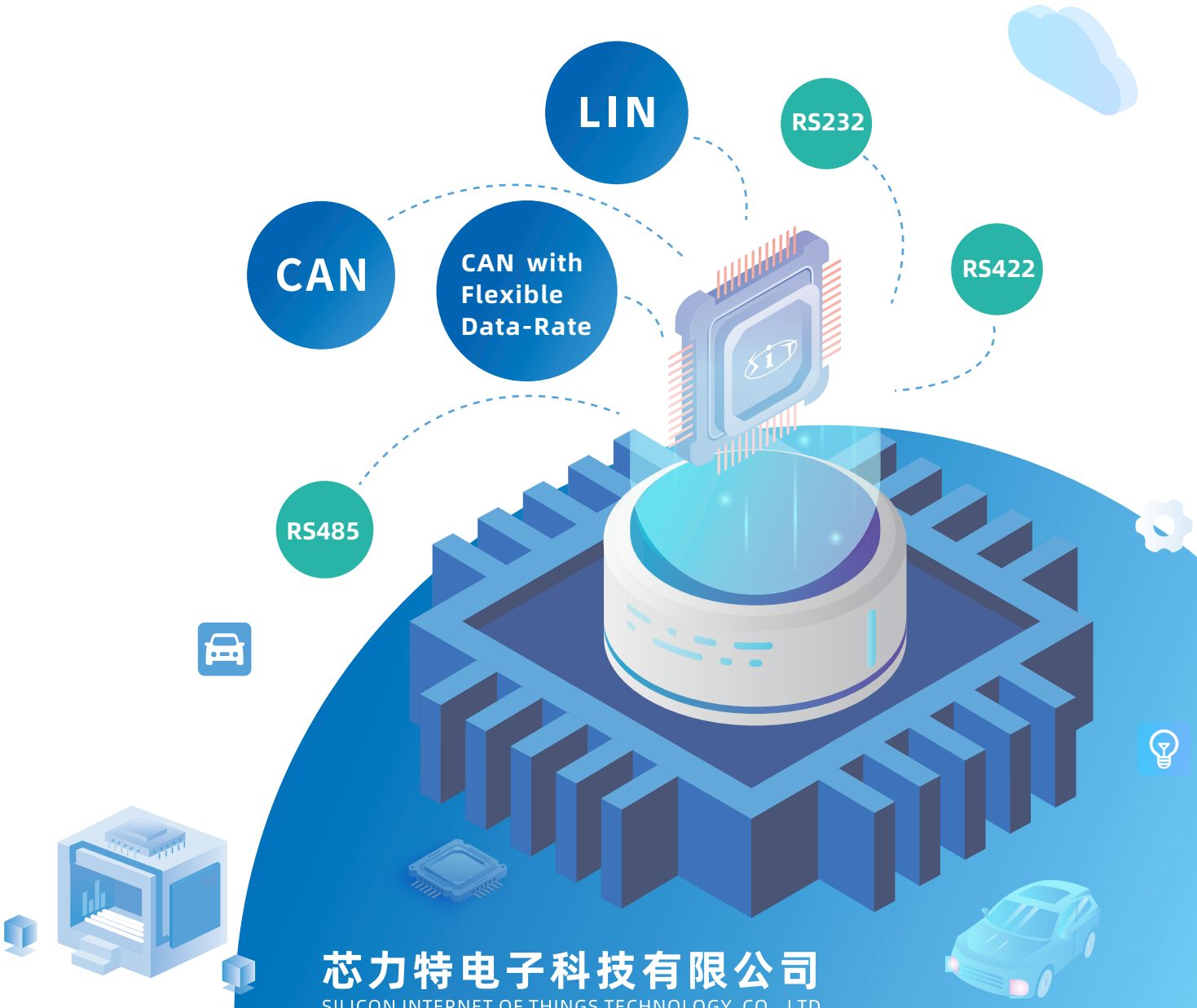
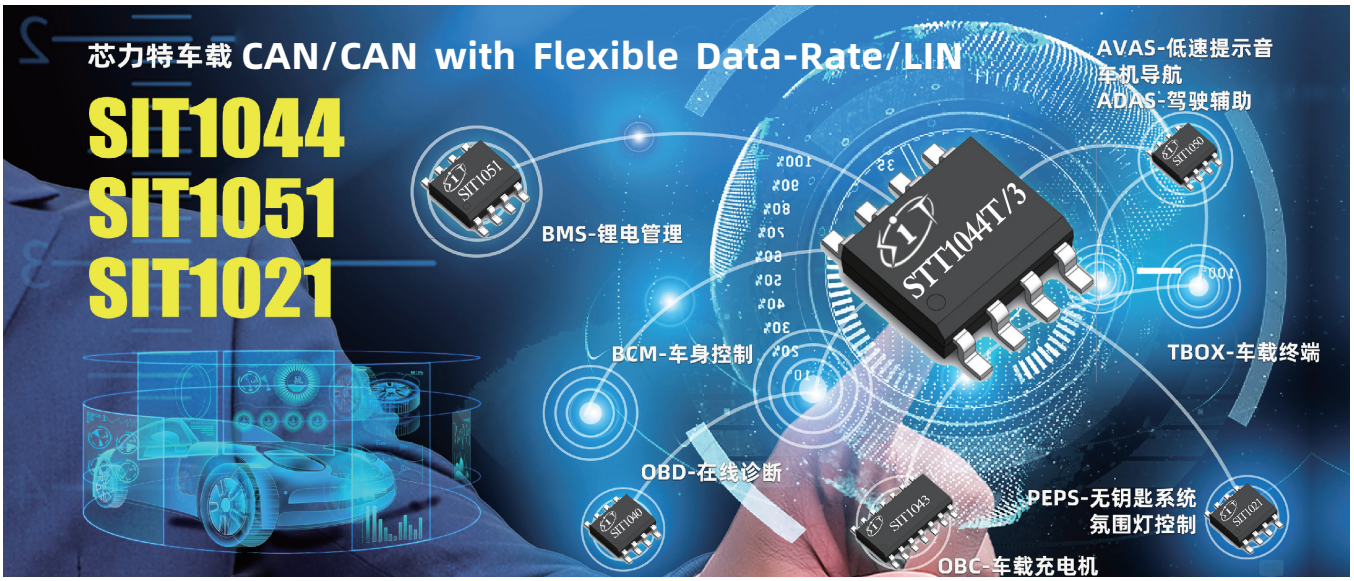
SILICON INTERNET OF THINGS TECHNOLOGY



芯力特电子科技有限公司

SILICON INTERNET OF THINGS TECHNOLOGY CO., LTD

关于我们
ABOUT US



芯力特电子科技有限公司 是由多名在海外有多年留学和工作经验的归国学者及东南大学“国家ASIC中心”等博士共同创办的集成电路设计企业，被认定为“国家高新技术企业”、“科技部中小企业”、“江苏省民营科技企业”，通过ISO9001国际质量体系认证、欧盟CE认证，拥有授权国家发明专利十余项。

Silicon Internet of Things Technology Co., Ltd. is an integrated circuit design enterprise founded by a number of returned scholars with many years of overseas study and doctors from the National ASIC Center of Southeast University. It is recognized as “National High-tech Technology Enterprise” and “Small and Media-Sized Enterprises of the Ministry of Science and Technology” and “Private Technology Enterprise of Jiangsu Province”, our company has passed the ISO9001 international quality system certification, has acquired CE certification of EU and has authorized more than 10 national invention patents.

芯力特专业从事面向工业与汽车电子领域芯片设计。目前研发产品主要围绕以下系列展开：CAN总线接口芯片系列，CAN with Flexible Data-Rate总线接口芯片系列，LIN总线接口芯片系列，RS485总线接口芯片系列，RS422总线接口芯片系列，RS232总线接口芯片系列。在通讯接口芯片这一细分领域，芯力特以聚焦的态度、专业的技术、齐全的系列，获得市场的极大关注与客户的共同认可，已成为工业与车载通讯接口芯片领域的知名模拟IC厂商。

Silicon specializes in chip design for the industrial and automotive electronics field. Currently, our products are mainly researched and developed around the following series: CAN bus interface chip series, CAN with Flexible Data-Rate bus interface chip series,LIN bus interface chip series, RS485 bus interface chip series, RS422 bus interface chip series, RS232 bus interface chip series. With the focused attitude, professional technology and complete series, Silicon has won great attentions from the markets and recognition form the customers in the subdivided field of communication interface chips, and has become a well-known analogy IC manufacture in the field of the industrial and automotive communication interface chips.

芯力特在国内率先突破芯片级集成抗雷击器件的关键技术并产业化；抗雷击RS485芯片产品由中国半导体行业协会评选为“第十一届（2016年度）中国半导体创新产品”，带休眠与唤醒功能的高性能CAN总线系列芯片SIT1040获得2019年度“中国芯”优秀技术创新产品，核心技术获得市科技进步奖。芯力特将不断耕耘工业和车载领域，开发出更多更高水平的模拟芯片。

Silicon is the first company in China to have the breakthrough in the core technology of chip-level integrated lightning prevention devices and have industrialized it; the lightning prevention RS485 chip product was evaluated by China Semiconductor Industry Association as the “11th (2016) China Semiconductor Innovative Product”, the chip SIT1040 from the CAN bus series with high performance in hibernation and the waking function has won the 2019 “China Chips” outstanding technological innovation product, its core technology has won the city’s science progress award. Silicon will continue to cultivate in the industrial and automotive fields and develop more and more high-level analogy chips.v

CAN系列产品列表

CAN PRODUCT LIST

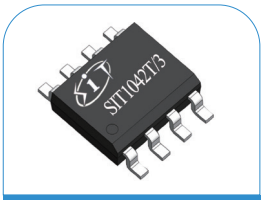
Part Number 型号	Supply Voltage(s) (V) 供电电压	Signaling Rate (Mbps) 速率	Wake up & Sleep 唤醒与休眠	Low power Current (uA) 低功耗电流	Dominant Time-Out 显性超时	Self-Diagnostic Or Autobaud 自诊断	Bus fault voltage (V) 总线容错电压范围	Package 封装	Pin to pin 替换型号
SIT82C250	4.5~5.5	1	Standby Hardware Wakeup	5（standby）	N	N	-8~18	SOP8/DIP8	PCA82C250
SIT82C251	4.5~5.5	1	Standby Hardware Wakeup	5（standby）	N	N	-36~36	SOP8/DIP8	PCA82C251
SIT2551	4.5~5.5	0.03~1	Standby Bus Wakeup	5（standby）	Y	N	-40~40	SOP8/DIP8	MCP2551
SIT1050	4.5~5.5	0.04~1	Silent	3500（silent）	Y	N	-40~40	SOP8/DIP8/DFN3*3-8	TJA1050
SIT1040	4.5~5.5	0.04~1	Standby Bus Wakeup	5（standby）	Y	N	-40~40	SOP8/DIP8/DFN3*3-8	TJA1040
SIT65HVD230	3.0~3.6	1	Silent	650（silent）	N	N	-16~16	SOP8	SN65HVD230
SIT65HVD231	3.0~3.6	1	Sleep, Hardware Wakeup	0.4(sleep)	N	N	-16~16	SOP8	SN65HVD231
SIT65HVD232	3.0~3.6	1	N	-	N	N	-16~16	SOP8	SN65HVD232
SIT65HVD233	3.0~3.6	1	Silent	650（silent）	N	Self-Diagnostic	-36~36	SOP8	SN65HVD233
SIT65HVD234	3.0~3.6	1	Silent, Sleep, (Hardware Wakeup)	370(silent) 0.05(sleep)	N	N	-36~36	SOP8	SN65HVD234
SIT65HVD235	3.0~3.6	1	Silent	360(silent)	N	Autobaud	-36~36	SOP8	SN65HVD235
SIT3051	3.0~3.6	1	Standby (Bus Wakeup), Shutdown(Hardwake up)	8(standby) 1(shutdown)	N	N	-36~36	SOP8/DFN3*3-8	MAX3051

CAN with Flexible Data-Rate系列产品列表

CAN with Flexible Data-Rate PRODUCT LIST

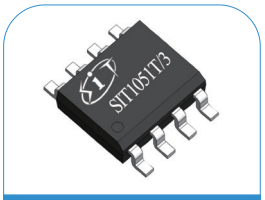
Part Number 型号	Supply Voltage(s) (V) 供电电压	Signaling Rate (Mbps) 速率	Wake up & Sleep 唤醒与休眠	Low power Current (uA) 低功耗电流	Dominant Time-Out 显性超时	Self-Diagnostic Or Autobaud 自诊断	Bus fault voltage (V) 总线容错电压范围	Package 封装	Pin to pin 替换型号
SIT1044T	4.5~5.5	0.005~5	Standby Bus Wake up	10	Y	NO	-40~40	SOP8	TJA1044T
SIT1044T/3	4.5~5.5 IO兼容3. 3V	0.005~5	Standby Bus Wake up	5	Y	NO	-40~40	SOP8	TJA1044T/3
SIT1044TK/3	4.5~5.5 IO兼容3. 3V	0.005~5	Standby Bus Wake up	5	Y	NO	-40~40	DFN3*3-8(HVSON8)	TJA1044TK/3
SIT1042T	4.5~5.5	0.005~5	Standby Bus Wake up	10	Y	NO	-70~70	SOP8	TJA1042T
SIT1042T/3	4.5~5.5 IO兼容3. 3V	0.005~5	Standby Bus Wake up	0.5	Y	NO	-70~70	SOP8	TJA1042T/3
SIT1042TK/3	4.5~5.5 IO兼容3. 3V	0.005~5	Standby Bus Wake up	0.5	Y	NO	-70~70	DFN3*3-8(HVSON8)	TJA1042TK/3
SIT1051T	4.5~5.5	0.005~5	silent	1000	Y	NO	-70~70	SOP8	TJA1051T
SIT1051T/E	4.5~5.5	0.005~5	Low Current Off Hardware Wakeup	0.5	Y	NO	-70~70	SOP8	TJA1051T/E
SIT1051T/3	4.5~5.5 IO兼容3. 3V	0.005~5	silent	1000	Y	NO	-70~70	SOP8	TJA1051T/3
SIT1051TK/3	4.5~5.5 IO兼容3. 3V	0.005~5	silent	1000	Y	NO	-70~70	DFN3*3-8(HVSON8)	TJA1051TK/3

重点产品介绍



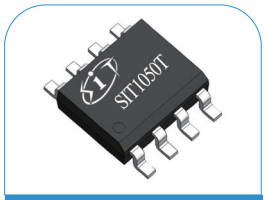
SIT1042T/3

- 5V供电
- I/O兼容5/3.3V
- CAN FD
- 待机与远程唤醒
- 70V以上耐压



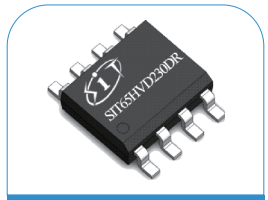
SIT1051T/3

- 5V供电
- I/O兼容5/3.3V
- 静音模式
- CAN FD
- 70V以上耐压



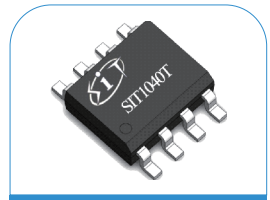
SIT1050T

- 5V供电
- 高速
- 静音模式



SIT65HVD230

- 3.3V供电
- 高速



SIT1040T

- 5V供电
- 高速
- 待机与远程唤醒

CAN产品简述
CAN PRODUCT DESCRIPTION

CAN with Flexible Data-Rate系列产品

SIT1044T: 5V power supply, High-speed CAN with Flexible Data- Rate, low-current standby mode and remote wake-up function
5V供电，带唤醒功能的低功耗待机模式的CAN with Flexible Data-Rate总线收发器

SIT1044T/3: 5V power supply, I/O voltage range supports CAN with Flexible Data-Rate transceiver for 3.3V and 5V MCU
5V供电，I/O电压范围支持3.3V和5V MCU的CAN with Flexible Data-Rate总线收发器

SIT1042T: 5V power supply,High speed CAN with Flexible Data-Rate transceiver,with low-current standby mode and remote wake-up capability
5V供电，带唤醒功能的低功耗待机模式的CAN with Flexible Data-Rate总线收发器

SIT1042T/3: 5V power supply, I/O voltage range supports CAN with Flexible Data-Rate transceiver for 3.3V and 5V MCU
5V供电，I/O电压范围支持3.3V和5V MCU的CAN with Flexible Data-Rate总线收发器

SIT1051T: 5V power supply, CAN with Flexible Data-Rate transceiver chip, with dominant timeout function
5V供电带显性超时功能的 CAN with Flexible Data-Rate收发器芯片

SIT1051T/E: 5V power supply, CAN with Flexible Data-Rate transceiver, with Low power shutdown mode
5V供电，具有低功耗关断模式的 CAN with Flexible Data-Rate总线收发器

SIT1051T/3: 5V power supply, I/O voltage range supports CAN with Flexible Data-Rate transceiver for 3.3V and 5V MCU
5V供电，I/O电压范围支持3.3V和5V MCU的CAN with Flexible Data-Rate总线收发器

5V供电CAN收发器

SIT1050T: High speed CAN transceiver,with transmit data (TXD) dominant time- out function
具有显性超时功能的高速CAN收发器芯片

SIT1040T: High speed CAN transceiver, with low-current standby mode and remote wake-up capability
带休眠与唤醒功能的CAN总线收发器芯片

SIT82C251T: 0~1Mbps CAN transceiver chip
0~1M速率CAN总线收发器芯片

3.3V供电CAN收发器

SIT65HVD230: 3.3V power supply, with silient mode high ESD protection CAN transceiver
3.3V供电，具有侦听模式的高静电防护CAN收发器芯片

SIT65HVD231: 3. 3V power supply,with low current sleep mode CAN transceiver
3.3V供电，具有超低电流休眠模式的CAN收发器芯片

SIT65HVD232: 3.3V power supply, high speed high ESD protection CAN transceiver
3. 3V供电，高静电防护高速CAN收发器芯片

SIT65HVD233: Bus pins fault protection exceeds 36V, support self-diagnosis function,standby power as low as 360uA CAN transceiver
36V以上耐压，支持自诊断功能，650uA以下待机功耗CAN收发器芯片

SIT65HVD234: Bus pins fault protection exceeds 36V, sleep power as low as 50nA High speed CAN transceiver
36V以上耐压，50nA以下待机功耗，高速CAN收发器芯片

SIT65HVD235: 3.3V power supply, automatic baud rate loop function, high-speed CAN bus transceiver
3.3V供电，自动波特率回环功能，高速CAN总线收发器芯片

SIT3051: 3.3V power supply, 1Mbps, standby and remote wake-up, low current CAN bus transceiver
3.3V供电、1Mbps、待机与远程唤醒、低电流CAN总线收发器芯片

LIN系列产品列表
LIN PRODUCT LIST

Part Number 型号	Supply Voltage(s) (V) 供电电压	Signaling Rate (Mbps) 速率	Wake up & Sleep 唤醒与休眠	Low power Current (uA) 低功耗电流	Dominant Time-Out 显性超时	Self-Diagnostic Or Autobaud 自诊断	Package 封装	Pin to pin 替换型号
SIT1021	5.5~27	0.02	Standby,Sleep	380(Standby), 5(Sleep)	Y	N	SOP8/DFN3*3-8(HVSON8)	TJA1021
SIT1027	5~27	0.02	Standby,Sleep	400(Standby), 4(Sleep)	N	N	SOP8/DFN3*3-8(HVSON8)	TJA1027

差分系列产品列表
DIFFERENCE PRODUCT LIST

Part Number 型号	Power Supply (V) 供电电压	Signaling Rate (Mbps) 速率	Dupex 全/半双工	Polarity Correction 极性校正	Number of Nodes 节点数	ESD Ability (KV) 静电能力	ICC (uA) 功耗	Package 封装	Pin to pin 替换型号
SIT75179B	4.4~5.5	10	Full	N	256	15	220	SOP8/DIP8	SN75179B

隔离接口系列产品列表
ISOLATED INTERFACE PRODUCT LIST

Part Number 型号	Power Supply (V) 供电电压	Signaling Rate (Mbps) 速率	Isolation voltage (VRMS) 隔离电压	Dupex 全/半双工	Polarity Correction 极性校正	Number of Nodes 节点数	ESD Ability (KV) 静电能力	ICC (mA) 功耗	Package 封装	Pin to pin 替换型号
SIT3491ISO	VCC1=2.5V-5.5V VCC2=4.5V-5.5V	16	5000	Full	N	256	15	5.2	SOPW16	ISO3080 ISO3086
SIT3485ISO	VCC1=2.5V-5.5V VCC2=4.5V-5.5V	0.5	5000	Half	N	256	15	4.2	SOPW16	ISO3082
SIT1050ISO	VCC1=3.0V-5.5V VCC2=4.5V-5.5V	1	2500/5000	\	N	110	8	2.3	DUB8/SOPW8 /SOPW16	ISO1050

RS232系列产品列表
RS232 PRODUCT LIST

Part Number 型号	Power Supply (V) 供电电源	Signaling Rate (Mbps) 速率	ESD Ability (KV) ESD	NO. OF EXTERNAL CAPACITORS (μF) 外接电容	Operating Temperature Range(℃) 温度	No. of TX 发送通道	No. of RX 接收通道	Package 封装	Pin to pin 替换型号
SIT232	5	0.12	2	4(1)	-40~85	2	2	SOP16/SOPW16	MAX232
SIT232E	5	0.12	15	4(1)	-40~85	2	2	SOP16	MAX232E
SIT202E	5	0.12	15	4(0.1)	-40~85	2	2	SOP16	MAX202
SIT3232E	3.3~5	0.12	15	4(0.1)	-40~85	2	2	SOP16/SSOP16/ TSSOP16/SOPW16	MAX3232

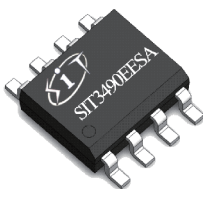
RS485系列产品列表
RS485 PRODUCT LIST

Part Number 型号	Power Supply (V) 供电电压	Signaling Rate (Mbps) 速率	Dupex 全/半双工	Polarity Correction 极性校正	Number of Nodes 节点数	ESD Ability (KV) 静电能力	ICC (uA) 功耗	Package 封装	Pin to pin 替换型号
SIT485E	5	0.5	Half	N	256	15	180	SOP8/DIP8/MSOP8	MAX485E
SIT3085E	5	1	Half	N	256	16	165	SOP8/DIP8/MSOP8	MAX3085E
SIT3082E	5	0.2	Half	N	256	15	170	SOP8/DIP8/MSOP8	MAX3082E
SIT3485	3.3	12	Half	N	256	15	540	SOP8/DIP8/MSOP8	MAX3485
SIT3485E	3.3/5	12	Half	N	256	15	280	SOP8/DIP8/MSOP8	MAX3485E
SIT65176B	3.3/5	10	Half	N	256	15	360	SOP8	SN65176B
SIT75176B	3.3/5	10	Half	N	32	15	280	SOP8/DIP8	SN75176B
SIT65HVD08	3.3/5	10	Half	N	256	15	580	SOP8/DIP8/MSOP8	SN65HVD08
SIT65HVD75	3.3/5	20	Half	N	32	15	400	SOP8/DIP8/DFN3*3-8/MSOP8	SN65HVD75
SIT3088E	3.3/5	14	Half	N	256	15	280	SOP8/DIP8/DFN3*3-8/MSOP8	MAX3088E

RS422系列产品列表
RS422 PRODUCT LIST

Part Number 型号	Power Supply (V) 供电电压	Signaling Rate (Mbps) 速率	Dupex 全/半双工	Polarity Correction 极性校正	Number of Nodes 节点数	ESD Ability (KV) 静电能力	ICC (uA) 功耗	Package 封装	Pin to pin 替换型号
SIT3490E	3.3/5	14	Full	N	256	15	240	SOP8/DIP8/MSOP8	MAX3490E
SIT3491E	3.3/5	12	Full	N	256	15	220	SOP14/DIP14	MAX3491E
SIT488E	5	1	Full	N	256	15	300	SOP8/DIP8/MSOP8	MAX488E
SIT490E	5	12	Full	N	256	15	220	SOP8/DIP8	MAX490E
SIT491E	5	12	Full	N	256	15	220	SOP14/DIP14	MAX491E

重点产品介绍



SIT3490E
- 全双工
- 3.3V/5V兼容
- 高速

SIT3491E
- 全双工
- 3.3V/5V兼容
- 高速
- 低功耗使能

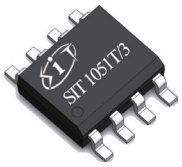
SIT3088E
- 半双工
- 3.3V/5V兼容
- 高速
- 低功耗使能

SIT65HVD75
- 半双工
- 3.3V/5V兼容
- 高速20M
- 低功耗使能

主营产品推荐
Main Products Recommendation

SIT1021T

SIT1042T/3



SIT1051T/3

SIT65HVD230DR

SIT3485EESA

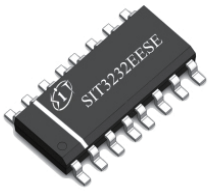
SIT3088EESA

SIT3051ESA

SIT1050T

SIT1040T

SIT3490EESA

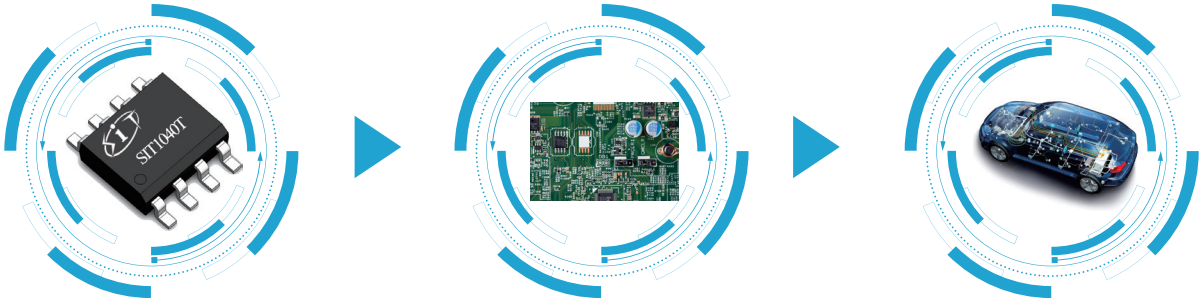


SIT3232EESE

SIT3491EESD

证书与资质
CERTIFICATE AND QUALIFICATION

部分合作伙伴



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