



PRODUCT SELECTION GUIDE

产品选型手册

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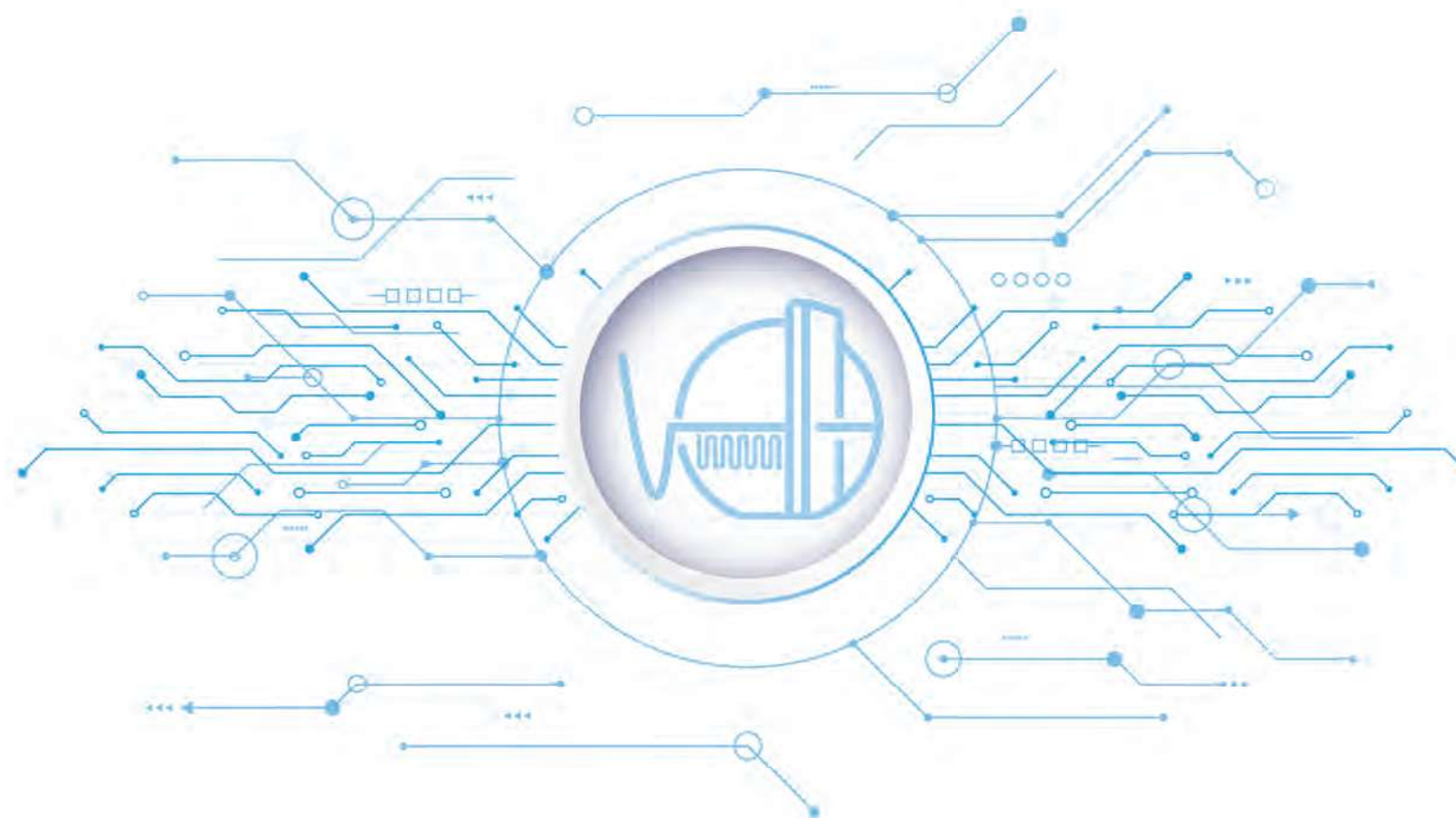
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公司介绍

我们是谁

上海英联电子科技有限公司成立于2001年，为盈力半导体(上海)有限公司的全资子公司，是一家无晶圆厂的集成电路设计公司。公司致力于高性能线性和混合信号集成电路的研发、设计与销售，产品被应用于各类电子设备。盈力半导体(上海)有限公司的产品通过检测、测量、放大、转换电源以及提供电路保护，桥接起了模拟世界与数字世界。

企业使命

公司使命是不断开发高质量和创新的模拟及混合信号集成电路解决方案，立足于中国，为全球客户的电子设备增值。

产品和应用

我们的产品包括接口收发芯片、电平转换芯片、数字隔离器、电源转换芯片、电源监控及复位芯片、模拟开关、光电二极管、ESD保护芯片和EMI滤波器。盈力半导体销售 1000 多种模拟集成电路，广泛应用于各种电子设备包括通讯、网络、电脑、工业、汽车、新能源、测试设备和数字消费电子产品等。

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Company Profile

Who We Are

Founded in 2001, Union Semiconductor is a fabless integrated circuit design company, engaged in inventing, designing and marketing high performance linear and mixed-signal integrated circuits (ICs) for uses in a variety of electronic equipment. Union Semiconductor's products bridge the analog real world and digital world by detecting, measuring, amplifying, converting power supply and providing protection for electronic circuits.

Corporate Mission

Union Semiconductor's mission is to continuously develop high quality and innovative analog & mixed signal IC solutions that adding values to customers' electronics equipment worldwide.

Products and Applications

Our products include interface transceivers, voltage translators, supervisory and reset circuits, power supply circuits, analog switches, optical APD, ESD protection ICs and EMI filters. Union Semiconductor markets over 1000 analog ICs for uses in a wide variety of electronic equipment, These include automotive, communication, computers, digital consumer electronics, green energy, industry, instrumentation, networking, portable devices, test equipment.

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▶ RS-485 & RS-422 收发器 | RS-485 & RS-422 Transceivers

Part Number	Duplex	Drivers/Receivers Per Package	Fault protection (V)	Max Date Rate (Mbps)	Common-mode range (V)	VCC Range (V)	VIO Range (V)	Icc(Max) (mA)	ESD HBM (kV)	IEC-61000-4-2 Contact (kV)	Operating Temperature Range (°C)	Package
*UM3090	Half (Integrated LDO)	1 / 1	-15 to +15	0.5	-15 to +15	5.5 to 30	—	0.5	±8	±8	-40 to 125	SOP8
UM3481	Half	1 / 1	-15 to +15	1	-15 to +15	3.0 to 5.5	—	2	±8	±8	-40 to 125	SOP8, MSOP8, DFN8 3.0×3.0
UM3481V	Half (VIO)	1 / 1	-15 to +15	1	-15 to +15	3.0 to 5.5	1.65 to 5.5	1	±8	±8	-40 to 125	SOP8, MSOP8, DFN10 3.0×3.0
UM3481D	Half (Auto Direction)	1 / 1	-15 to +15	1	-15 to +15	3.0 to 5.5	—	2	±8	±8	-40 to 125	SOP8, MSOP8, DFN8 3.0×3.0
UM13082	Half	1 / 1	-15 to +15	20	-15 to +15	3.0 to 5.5	—	3	±8	±8	-40 to 125	SOP8, MSOP8, DFN8 3.0×3.0
UM13082V	Half (VIO)	1 / 1	-15 to +15	20	-15 to +15	3.0 to 5.5	1.65 to 5.5	1.5	±8	±8	-40 to 125	SOP8, MSOP8, DFN10 3.0×3.0
UM13082D	Half (Auto Direction)	1 / 1	-15 to +15	10	-15 to +15	3.0 to 5.5	—	3	±8	±8	-40 to 125	SOP8, MSOP8, DFN8 3.0×3.0
*UM3481H	Half	1 / 1	-30 to +30	1	-25 to +25	3.0 to 5.5	—	3	±8	±8	-40 to 125	SOP8, MSOP8, DFN8 3.0×3.0
*UM3481HV	Half (VIO)	1 / 1	-30 to +30	1	-25 to +25	3.0 to 5.5	1.65 to 5.5	1.5	±8	±8	-40 to 125	SOP8, MSOP8, DFN10 3.0×3.0
*UM3481HVS	Half (VIO+SLR)	1 / 1	-30 to +30	1	-25 to +25	3.0 to 5.5	1.65 to 5.5	1.5	±8	±8	-40 to 125	DFN10 3.0×3.0
*UM3481HD	Half (Auto Direction)	1 / 1	-30 to +30	1	-25 to +25	3.0 to 5.5	—	3	±8	±8	-40 to 125	SOP8, MSOP8, DFN8 3.0×3.0
*UM13082H	Half	1 / 1	-30 to +30	20	-25 to +25	3.0 to 5.5	—	4	±8	±8	-40 to 125	SOP8, MSOP8, DFN8 3.0×3.0
*UM13082HV	Half (VIO)	1 / 1	-30 to +30	20	-25 to +25	3.0 to 5.5	1.65 to 5.5	2	±8	±8	-40 to 125	SOP8, MSOP8, DFN10 3.0×3.0

*产品预发布 Preview

▶ RS-485 & RS-422 收发器 (续) | RS-485 & RS-422 Transceivers (continued)

Part Number	Duplex	Drivers/Receivers Per Package	Fault protection (V)	Max Data Rate (Mbps)	Common-mode range (V)	VCC Range (V)	VIO Range (V)	Icc(Max) (mA)	ESD HBM (kV)	IEC-61000-4-2 Contact (kV)	Operating Temperature Range (°C)	Package
*UM13082HD	Half (Auto Direction)	1 / 1	-30 to +30	20	-25 to +25	3.0 to 5.5	—	4	±8	±8	-40 to 125	SOP8, MSOP8, DFN8 3.0×3.0
*UM13085H	Half	1 / 1	-30 to +30	50	-25 to +25	3.0 to 5.5	—	4	±8	±8	-40 to 125	SOP8, MSOP8, DFN8 3.0×3.0
*UM13085HV	Half (VIO)	1 / 1	-30 to +30	50	-25 to +25	3.0 to 5.5	1.65 to 5.5	2	±8	±8	-40 to 125	SOP8, MSOP8, DFN10 3.0×3.0
*UM13085HVS	Half (VIO+SLR)	1 / 1	-30 to +30	20 / 50 (Configurable)	-25 to +25	3.0 to 5.5	1.65 to 5.5	2	±8	±8	-40 to 125	DFN10 3.0×3.0
*UM13085HD	Half (Auto Direction)	1 / 1	-30 to +30	50	-25 to +25	3.0 to 5.5	—	4	±8	±8	-40 to 125	SOP8, MSOP8, DFN8 3.0×3.0
UM3783	Half	1 / 1	-86 to +86	0.5	-25 to +25	3.0 to 5.5	—	4	±8	±8	-40 to 125	SOP8, MSOP8, DFN8 3.0×3.0
UM3783H	Half	1 / 1	-100 to +100	0.5	-25 to +25	3.0 to 5.5	—	5	±8	±8	-40 to 125	SOP8, MSOP8, DFN8 3.0×3.0
UM3481F	Full	1 / 1	-15 to +15	1	-15 to +15	3.0 to 5.5	—	2	±8	±8	-40 to 125	SOP8, SOP14
UM3481FV	Full (VIO)	1 / 1	-15 to +15	1	-15 to +15	3.0 to 5.5	1.65 to 5.5	1	±8	±8	-40 to 125	SOP14
UM13082F	Full	1 / 1	-15 to +15	20	-15 to +15	3.0 to 5.5	—	3	±8	±8	-40 to 125	SOP8, SOP14
UM13082FV	Full (VIO)	1 / 1	-15 to +15	20	-15 to +15	3.0 to 5.5	1.65 to 5.5	1.5	±8	±8	-40 to 125	SOP14

*产品预发布 Preview

▶ RS-232 收发器 | RS-232 Transceivers

Part Number	Drivers/Receivers Per Package	Max Date Rate (Mbps)	VCC Range (V)	VL Range (V)	ICC (Max) (mA)	VOUT (Typ) (V)	Low Power Mode	ESD HBM(kV)	IEC-61000-4-2 Contact(kV)	Operating temperature range (°C)	Package
UM3122	2 / 2	1	1.65 to 2.0 & 3.0 to 5.5	1.65 to 5.5	1.9	±4.7 /±5.4	Yes	±8	±8	-40 to 105	QFN24 4.0×4.0
*UM3220	1 / 1	0.25 / 1	3.0 to 5.5	--	1.0	±5.4	Yes	±8	±8	-40 to 85	TSSOP16, SSOP16
UM3221	1 / 1	0.25	3.0 to 5.5	--	1.5	±6	Yes	±8	±8	-40 to 85	TSSOP16, SSOP16
UM3222	2 / 2	0.25	3.0 to 5.5	--	1.5	±6	Yes	±8	±8	-40 to 85	TSSOP20
*UM3223V	2 / 2	0.25 / 1	3.0 to 5.5	1.65 to 5.5	1	±5.4	Yes	±8	±8	-40 to 85	QFN24 4.0×4.0
UM3232	2 / 2	0.25	3.0 to 5.5	--	1.5	±6	No	±8	±8	-40 to 85	DIP16, TSSOP16, SSOP16, SOP16
UM3232-Q	2 / 2	0.25	3.0 to 5.5	--	1.5	±6	No	±8	±8	-40 to 85	TSSOP16, SSOP16, SOP16
UM3232B	2 / 2	0.5	3.0 to 5.5	--	2.5	±6	No	±8	±8	-40 to 85	TSSOP16, SSOP16, SOP16
*UM3233V	3 / 3	0.25 / 1	3.0 to 5.5	1.65 to 5.5	1	±5.4	Yes	±8	±8	-40 to 85	QFN24 4.0×4.0
UM3243	3 / 5	0.25	3.0 to 5.5	--	1	±5.4	Yes	±8	±8	-40 to 85	SSOP28, TSSOP28, SOP28, QFN32 5.0×5.0
*UM3243V	3 / 5	1	3.0 to 5.5	1.65 to 5.5	1	±5.4	Yes	±8	±8	-40 to 85	SSOP28

*产品预发布 Preview -Q 产品通过车规认证 AEC-Q100 Qualified

▶ RS-232 收发器 | RS-232 Transceivers (continued)

Part Number	Drivers/Receivers Per Package	Max Date Rate (Mbps)	VCC Range (V)	VL Range (V)	ICC (Max) (mA)	VOUT (Typ) (V)	Low Power Mode	ESD HBM(kV)	IEC-61000-4-2 Contact(kV)	Operating temperature range (°C)	Package
UM202	2 / 2	0.25	4.5 to 5.5	--	15	±9	No	±8	±8	-40 to 85	SOP16, DIP16, TSSOP16
UM232	2 / 2	0.25	4.5 to 5.5	--	15	±9	No	±8	±8	-40 to 85	SOP16, DIP16, TSSOP16
UM207	5 / 3	0.25	4.5 to 5.5	--	1	±6	No	±8	±8	-40 to 85	SOP24, SSOP24, TSSOP24
UM208	4 / 4	0.25	4.5 to 5.5	--	1	±6	No	±8	±8	-40 to 85	SOP24, SSOP24, TSSOP24
UM211	4 / 5	0.25	4.5 to 5.5	--	1	±6	Yes	±8	±8	-40 to 85	SOP28, SSOP28, TSSOP28
UM213	4 / 5	0.25	4.5 to 5.5	--	1	±6	Yes	±8	±8	-40 to 85	SOP28, SSOP28, TSSOP28

▶ 多协议收发器 | Multiprotocol Transceivers

Part Number	Protocols	Drivers Per Package	Receivers Per Package	VCC Range (V)	VIO Range (V)	Max Date Rate (Mbps)	Features	ESD HBM (kV)	Operating temperature range (°C)	Package
*UM3035A	RS-232, RS-485, RS-422	3 (RS-232) 1 (RS-485, RS-422)	5 (RS-232) 1 (RS-485, RS-422)	3 to 5.5	1.65 to 5.5	0.25 / 1 (RS-232) 0.5/ 20 (RS-485,RS- 422)	Fail Safe Protection, Slew Rate Control, Switchable termination resistor	±8	-40 to 125	QFN40 6.0×6.0
*UM3035B	RS-232, RS-485, RS-422	3 (RS-232) 1 (RS-485, RS-422)	5 (RS-232) 1 (RS-485, RS-422)	3 to 5.5	-	0.25 / 1 (RS-232) 0.25/ 20 (RS-485,RS- 422)	Fail Safe Protection, Slew Rate Control, Switchable termination resistor	±8	-40 to 125	QFN40 6.0×6.0

*产品预发布 Preview

▶ LVDS 收发器 | LVDS Transceivers

Part Number	Function	Protocols	Drivers/Receivers Per Package	Max Data Rate (Mbps)	VCC Range (V)	ICC (Max) (mA)	ESD HBM (kV)	Operating Temperature Range (°C)	Package
UM3400	M-LVDS Differential Transceiver	M-LVDS	1 / 1	100	3.0 to 3.6	24	±8	-40 to 85	SOP8
UM3401	M-LVDS Differential Transceiver	M-LVDS	1 / 1	100	3.0 to 3.6	24	±8	-40 to 85	SOP8
*UM3405	M-LVDS Differential Transceiver	M-LVDS	1 / 1	200	3.0 to 3.6	24	±8	-40 to 85	SOP8
*UM3406	M-LVDS Differential Transceiver	M-LVDS	1 / 1	200	3.0 to 3.6	24	±8	-40 to 85	SOP8
UM3403	LVDS Differential Receiver	LVDS	0 / 4	400	3.0 to 3.6	15	±6	-40 to 85	TSSOP16
UM3404	LVDS Differential Transmitter	LVDS	4 / 0	400	3.0 to 3.6	8	±6	-40 to 85	SOP16, TSSOP16

▶ CAN 收发器 | CAN Transceivers

Part Number	Mode	Protocols	Fault protection (V)	Channels	VCC Range (V)	Max Data Rate (Mbps)	Feature	BUS Contact ESD (kV)	Operating Temperature Range (°C)	Package
UMCAN1057	Normal, Silent	CAN, CAN FD	-40 to 40	1	4.5 to 5.5	5	Silent, VIO	±10	-40 to 125	SOP8, DFN8 3.0×3.0
UMCAN1057-Q	Normal, Silent	CAN, CAN FD	-40 to 40	1	4.5 to 5.5	5	Silent, VIO	±8	-40 to 125	SOP8, DFN8 3.0×3.0
*UMCAN1057S	Normal, Silent	CAN, CAN FD	-40 to 40	1	4.5 to 5.5	8	Silent, VIO, SIC	±10	-40 to 125	SOP8, DFN8 3.0×3.0
*UMCAN1057S-Q	Normal, Silent	CAN, CAN FD	-40 to 40	1	4.5 to 5.5	8	Silent, VIO, SIC	±8	-40 to 125	SOP8, DFN8 3.0×3.0
UMCAN1044	Normal, Standby	CAN, CAN FD	-40 to 40	1	4.5 to 5.5	8	Standby, VIO	±10	-40 to 125	SOP8, DFN8 3.0×3.0
UMCAN1044-Q	Normal, Standby	CAN, CAN FD	-40 to 40	1	4.5 to 5.5	8	Standby, VIO	±8	-40 to 125	SOP8, DFN8 3.0×3.0
UMCAN1462	Normal, Standby	CAN, CAN FD	-40 to 40	1	4.5 to 5.5	8	Standby, VIO, SIC	±10	-40 to 125	SOP8, DFN8 3.0×3.0
UMCAN1462-Q	Normal, Standby	CAN, CAN FD	-40 to 40	1	4.5 to 5.5	8	Standby, VIO, SIC	±8	-40 to 125	SOP8, DFN8 3.0×3.0
*UMCAN1472	Normal, Standby	CAN, CAN FD	-70 to 70	1	4.5 to 5.5	8	Standby, VIO, SIC	±9	-40 to 125	SOP8, DFN8 3.0×3.0
*UMCAN1472-Q	Normal, Standby	CAN, CAN FD	-70 to 70	1	4.5 to 5.5	8	Standby, VIO, SIC	±9	-40 to 125	SOP8, DFN8 3.0×3.0

▶ EMI 滤波器 | EMI Filter

Part Number	Filter Type	Channels	BW@3dB (MHz)	Vrwm (V)	IEC 61000-4-2 Contact (kV)	Operating Temperature Range (°C)	Package
UM1001	RC	2	42	5	±8	-40 to +85	SOT23-6
UM4401	RC	4	150	5	±8	-40 to +85	DFN8 2.1× 1.6
UM4411	RC	4	150	5	±8	-40 to +85	DFN8 1.7×1.3

*产品预发布 Preview -Q 产品通过车规认证 AEC-Q100 Qualified

EMI 滤波器 (续) | EMI Filter (continued)

Part Number	Filter Type	Channels	BW@3dB (MHz)	V _{rw} m (V)	IEC 61000-4-2 Contact (kV)	Operating Temperature Range (°C)	Package
UM6401	RC	6	150	5	±8	-40 to +85	DFN12 3.0×1.6
UM6411	RC	6	150	5	±8	-40 to +85	DFN12 2.5×1.3
UM8401	RC	8	150	5	±8	-40 to +85	DFN16 4.0×1.6
UM8411	RC	8	150	5	±8	-40 to +85	DFN16 3.3×1.3
UM4601	LC	4	150	5	±8	-40 to +85	DFN8 2.0×2.0
UM4611	LC	4	150	5	±8	-40 to +85	DFN8 1.7×1.3
UM8601	LC	8	150	5	±8	-40 to +85	DFN16 4.0×1.6
UM8611	LC	8	150	5	±8	-40 to +85	DFN16 3.3×1.3
UM8511	LC	8	250	5	±8	-40 to +85	DFN16 3.3×1.3

TVS 二极管 | TVS Diodes

Part Number	Bi-/Uni-directional	Channels	V _{rw} m (V)	Breakdown voltage (Min) (V)	C _J @V _R =0V (Typ) (pF)	Peak pulse power (8/20 μs) (Max) (W)	IEC 61000-4-2 Contact (kV)	IEC 61000-4-2 Air (kV)	Package
Low Capacitor TVS									
UESD6V8L1F	Uni-directional	1	5	6	17	55	±8	±15	DFN2 1.0×0.6
UESD6V8Lxx	Uni-directional	4 / 5	5	6	20	55	±8	±15	SC70-5/SC88A/SOT353 SC89-5/SOT553/SOT665 SC70-6/SC88/SOT363 SC89-6/SOT563/SOT666
Standard Capacitor TVS									
UM5035	Uni-directional	1	5	6	40	140	±8	±15	SOD323
UM5055	Uni-directional	1	5	6	40	140	±8	±15	SOD523
UM5051DA	Uni-directional	1	5	6	19	60	±25	±30	DFN2 0.6×0.3
UM5059	Uni-directional	1	5	6	40	140	±30	±30	DFN2 1.0×0.6
UM5059T	Uni-directional	1	5	6	60	140	±30	±30	TDFN2 1.0×0.6
UM5075	Uni-directional	1	7	7.5	40	200	±15	±15	SOD523
UM5079	Uni-directional	1	7	7.5	40	200	±15	±15	DFN2 1.0×0.6
UM50125	Uni-directional	1	12	16	20	140	±30	±30	SOD523
UM50129	Uni-directional	1	12	16	20	140	±30	±30	DFN2 1.0×0.6
UM5080	Bi-directional	1	5	6.5	25	140	±15	±15	DFN2 1.0×0.6

▶ TVS 二极管 (续) | TVS Diodes (continued)

Part Number	Bi-/Uni-directional	Channels	V _{rw} (V)	Breakdown voltage (Min) (V)	C _J @VR=0V (Typ) (pF)	Peak pulse power (8/20 μs) (Max) (W)	IEC 61000-4-2 Contact (kV)	IEC 61000-4-2 Air (kV)	Package
UM5052DA	Bi-directional	1	5	6.5	7	60	±30	±30	DFN2 0.6×0.3
UM5060	Bi-directional	1	5	6.5	40	140	±30	±30	SOD523
UM5080T	Bi-directional	1	5	6.5	45	140	±30	±30	DFN2 1.0×0.6
UM5084	Bi-directional	1	12	16.7	10	140	±8	±15	DFN2 1.0×0.6
SM05	Uni-directional	2	5	6	25	300	±8	±15	SOT23-3
UESD6V8S2B	Uni-directional	2	5	6	40	140	±8	±15	SOT523
UM5062	Uni-directional	2	5	6	40	140	±8	±15	QFN3 1.4×1.1
UM5082	Uni-directional	2	5	6	40	140	±8	±15	DFN3 1.0×0.6
SM12	Uni-directional	2	12	16	20	140	±8	±15	SOT23-3
SM15	Uni-directional	2	15	16.7	20	140	±8	±15	SOT23-3
UESD54B	Uni-directional	4	5	6	40	140	±8	±15	SC70-5/SC88A/SOT353
UESD55B	Uni-directional	4	5	6	40	140	±8	±15	SC89-6/SOT563/SOT666
UESD64B	Uni-directional	4	5	6	40	140	±8	±15	SC89-5/SOT553/SOT665
UESD16V8S4C	Uni-directional	4	12	16	20	140	±8	±15	SOT23-6
UESD56B	Uni-directional	5	5	6	40	140	±8	±15	SC89-6/SOT563/SOT666
UESD6V85CT36	Uni-directional	5	5	6	40	140	±8	±15	SC70-6/SC88/SOT363

Ultra Low Capacitor TVS

UESD6V8V4x	Uni-directional	4	5	6	1	150	±8	±15	SC70-6/SC88/SOT363 SC89-6/SOT563/SOT666 TSOP-6/SOT23-6
UM5202EEDF	Uni-directional	2	5	6	1	150	±8	±15	SOT143
UM5204xF	Uni-directional	4	5	6	1	150	±8	±15	SC70-6/SC88/SOT363 SC89-6/SOT563/SOT666 TSOP-6/SOT23-6
UM5204Cx	Uni-directional	4	5	6	1	200	±8	±15	SOT23-6
UM5304xF	Uni-directional	4	5	6	1	150	±8	±15	SC70-6/SC88/SOT363 SC89-6/SOT563/SOT666 TSOP-6/SOT23-6
UM5404EEDF	Uni-directional	4	5	6	1	200	±8	±15	DFN6 1.6×1.6

电平转换

Level Shifters

▶ 电平转换 | Level Shifters

Part Number	Direction Control	Channels	Max Date Rate (Mbps)	VCCA Range (V)	VCCB Range (V)		With Edge Acceleration	Logic Output	Typical Application	Operating Temperature Range (°C)	Package
UM3202	Auto	2	24	1.65 to 3.6	2.3 to 5.5		Yes	Push-Pull/Open-Drain	I2C, MDIO, PMBus, SMBus, UART, GPIO	-40 to +85	CSP8 1.9×0.9, DFN8 1.4×1.0, DFN8 1.7×1.35 VSSOP8, SSOP8, SOT23-8
UM3202-Q	Auto	2	24	1.65 to 3.6	2.3 to 5.5		Yes	Push-Pull/Open-Drain	I2C, MDIO, PMBus, SMBus, UART, GPIO	-40 to +125	DFN8 1.7×1.35
UM3204	Auto	4	24	1.65 to 3.6	2.3 to 5.5		Yes	Push-Pull/Open-Drain	I2C, MDIO, PMBus, SMBus, UART, GPIO	-40 to +85	CSP12 1.9×1.4, QFN14 3.5×3.5 TSSOP14, QFN12 1.7×2.0 QFN12 2.0×2.0, QFN12 1.8×1.8
UM3204-Q	Auto	4	24	1.65 to 3.6	2.3 to 5.5		Yes	Push-Pull/Open-Drain	I2C, MDIO, PMBus, SMBus, UART, GPIO	-40 to +125	QFN14 3.5×3.5, QFN12 1.7×2.0
UM3208	Auto	8	24	1.65 to 3.6	2.3 to 5.5		Yes	Push-Pull/Open-Drain	I2C, MDIO, PMBus, SMBus, UART, GPIO	-40 to +85	CSP20 2.4×1.9, QFN20 4.5×3.5 QFN20 3.0×3.0, TSSOP20
UM3301	Auto	1	100	1.2 to 3.6	1.65 to 5.5		Yes	Push-Pull	GPIO, Clock	-40 to +85	SOT563 DFN6 1.45×1.0
UM3302	Auto	2	100	1.2 to 3.6	1.65 to 5.5		Yes	Push-Pull	GPIO, UART	-40 to +85	CSP8 1.9×0.9 MSOP8
UM3304	Auto	4	100	1.2 to 3.6	1.65 to 5.5		Yes	Push-Pull	GPIO, JTAG, SPI, UART	-40 to +85	CSP12 1.9×1.4, QFN14 3.5×3.5 QFN16 2.6×1.8, QFN12 1.7×2.0 TSSOP14
UM3308	Auto	8	100	1.2 to 3.6	1.65 to 5.5		Yes	Push-Pull	GPIO, JTAG, SPI, UART	-40 to +85	CSP20 2.4×1.9, QFN20 3.0×3.0, QFN20 4.5×3.5, TSSOP20
UM3212	Auto	2	4	1.0 to 3.6	1.8 to 5.5		No	Open-Drain	I2C	-40 to +85	MSOP8, VSSOP8 DFN8 2.1×1.6
UM3212-Q	Auto	2	4	1.0 to 3.6	1.8 to 5.5		No	Open-Drain	I2C	-40 to +125	VSSOP8
UM2001P	Auto	1	66	1.0 to 3.6	1.8 to 5.5		No	Open-Drain	I2C	-40 to +85	SOT363
UM2002	Auto	2	66	1.0 to 3.6	1.8 to 5.5		No	Open-Drain	I2C	-40 to +85	TSSOP8, SOP8

-Q 产品通过车规认证 AEC-Q100 Qualified

▶ 电平转换 (续) | Level Shifters (continued)

Part Number	Direction Control	Channels	Max Data Rate (Mbps)	VCCA Range (V)	VCCB Range (V)	With Edge Acceleration	Logic Output	Typical Application	Operating Temperature Range (°C)	Package
UM2102	Auto	2	66	1.0 to 3.6	1.8 to 5.0	No	Open-Drain	I2C	-40 to +85	DFN6 2.0×2.0, SOT23-6
UM3282F	Auto	2	100 (1.8->3.3)	1.1 to 5.5	1.1 to 5.5	Yes	Push-Pull/Open-Drain	I2C, MDIO, SMBus UART, GPIO	-40 to +125	VSSOP8
UM3282F-Q	Auto	2	100 (1.8->3.3)	1.1 to 5.5	1.1 to 5.5	Yes	Push-Pull/Open-Drain	I2C, MDIO, SMBus UART, GPIO	-40 to +125	VSSOP8
UM3284	Auto	4	60 (1.8->3.3)	1.2 to 3.6	1.65 to 5.5	Yes	Push-Pull/Open-Drain	I2C, MDIO, SMBus UART, GPIO	-40 to +85	QFN14 3.5×3.5, TSSOP14 QFN12 1.7×2.0, QFN12 1.8×1.8
UM3284-Q	Auto	4	60 (1.8->3.3)	1.2 to 3.6	1.65 to 5.5	Yes	Push-Pull/Open-Drain	I2C, MDIO, SMBus UART, GPIO	-40 to +125	QFN14 3.5×3.5, TSSOP14 QFN12 1.7×2.0
UM3284F	Auto	4	100 (1.8->3.3)	1.1 to 5.5	1.1 to 5.5	Yes	Push-Pull/Open-Drain	I2C, MDIO, SMBus UART, GPIO	-40 to +125	QFN12 1.7×2.0, QFN12 1.8×1.8 QFN14 3.5×3.5, TSSOP14
UM3284F-Q	Auto	4	100 (1.8->3.3)	1.1 to 5.5	1.1 to 5.5	Yes	Push-Pull/Open-Drain	I2C, MDIO, SMBus UART, GPIO	-40 to +125	QFN12 1.7×2.0
UM3288	Auto	8	60 (1.8->3.3)	1.2 to 3.6	1.65 to 5.5	Yes	Push-Pull/Open-Drain	I2C, MDIO, SMBus UART, GPIO	-40 to +85	CSP20 2.4×1.9, TSSOP20 QFN20 3.0×3.0, QFN20 4.5×3.5
UM3288-Q	Auto	8	60 (1.8->3.3)	1.2 to 3.6	1.65 to 5.5	Yes	Push-Pull/Open-Drain	I2C, MDIO, SMBus UART, GPIO	-40 to +125	TSSOP20
UM3288F	Auto	8	100 (1.8->3.3)	1.1 to 5.5	1.1 to 5.5	Yes	Push-Pull/Open-Drain	RMII, I2C, MDIO, SMBus, UART, GPIO	-40 to +125	CSP20 2.4×1.9, QFN20 3.0×3.0 QFN20 4.5×3.5, TSSOP20
UM3601	Controlled	1	220	1.65 to 5.5	1.65 to 5.5	No	Push-Pull	GPIO, Clock	-40 to +85	SOT23-6
UM3602	Controlled	2	220	1.65 to 5.5	1.65 to 5.5	No	Push-Pull	GPIO, UART	-40 to +85	VSSOP8
UM3608	Controlled	8	220	1.65 to 5.5	1.65 to 5.5	No	Push-Pull	GPIO, RGMII, I2S, UART, SPI	-40 to +85	SSOP24, TSSOP24 QFN24 3.5×5.5
UM74AVC1T45	Controlled	1	500	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, Clock	-40 to +125	SOT23-6, SOT363
UM74AVC2T45	Controlled	2	500	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, UART	-40 to +125	VSSOP8, SSOP8, SOT23-8, MSOP8
UM74AVC2T45-Q	Controlled	2	500	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, UART	-40 to +125	VSSOP8
UM74AVC2T245	Controlled	2	500	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, UART	-40 to +125	QFN10 1.8×1.4
UM74AVC4T245	Controlled	4	400	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, JTAG, SPI, UART	-40 to +125	SOP16, TSSOP16, QFN16 2.6×1.8 QFN16 2.5×3.5, QFN16 4.0×3.5
UM74AVC4T245-Q	Controlled	4	400	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, JTAG, SPI, UART	-40 to +125	SOP16, TSSOP16

-Q 产品通过车规认证 AEC-Q100 Qualified

▶ 电平转换 (续) | Level Shifters (continued)

Part Number	Direction Control	Channels	Max Data Rate (Mbps)	VCCA Range (V)	VCCB Range (V)	With Edge Acceleration	Logic Output	Typical Application	Operating Temperature Range (°C)	Package
UM74AVC4T774	Controlled	4	400	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, JTAG, SPI, UART	-40 to +125	SOP16, TSSOP16, QFN16 2.6×1.8, QFN16 2.5×3.5, QFN16 4.0×3.5
UM74AVC4T774-Q	Controlled	4	400	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, JTAG, SPI, UART	-40 to +125	SOP16, TSSOP16
UM74AVC8T245	Controlled	8	400	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, RGMII, I2S	-40 to +125	SSOP24, TSSOP24 QFN24 3.5×5.5
UM74AVC8T245-Q	Controlled	8	400	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, RGMII, I2S	-40 to +125	SSOP24, TSSOP24 QFN24 3.5×5.5
UM74AVC8TX245	Controlled (Two DIR Pin)	8	400	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, RGMII, I2S	-40 to +125	TSSOP24, QFN24 2.0×4.0, QFN24 3.5×5.5
UM74AVC16T245	Controlled	16	380	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, RGMII, I2S	-40 to +125	TSSOP48
UM74AVCH1T45	Controlled	1	500	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, Clock	-40 to +125	SOT23-6
UM74AVCH2T45	Controlled	2	500	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, UART	-40 to +125	VSSOP8
UM74AVCH4T245	Controlled	4	400	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, JTAG, SPI, UART	-40 to +125	SOP16, TSSOP16
UM74AVCH8T245	Controlled	8	400	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, RGMII, I2S	-40 to +125	SSOP24, TSSOP24 QFN24 3.5×5.5
UM74AVCH8TX245	Controlled (Two DIR Pin)	8	400	1.0 to 3.6	1.0 to 3.6	No	Push-Pull	GPIO, RGMII, I2S	-40 to +125	TSSOP24, DFN24 2.0×4.0
UMLSF0102	Auto	2	200	0.8 to 4.5	1.8 to 5.5	No	Push-Pull/Open-Drain	GPIO, MDIO, SMBus, PMBus, I2C	-40 to +125	VSSOP8, SSOP8, DFN8 1.4×1.0
UMLSF0212	Auto (EN is high-active)	2	30	0.8 to 4.5	1.8 to 5.5	No	Push-Pull/Open-Drain	GPIO, MDIO, SMBus, PMBus, I2C	-40 to +125	DFN8 1.4×1.0
UMLSF0212D	Auto (EN is low-active)	2	30	0.8 to 4.5	1.8 to 5.5	No	Push-Pull/Open-Drain	GPIO, MDIO, SMBus, PMBus, I2C	-40 to +125	DFN8 1.4×1.0
UMLSF0204	Auto (EN is high-active)	4	200	0.8 to 4.5	1.8 to 5.5	No	Push-Pull/Open-Drain	GPIO, SPI, MDIO, SMBus, PMBus, I2C, UART, SVID	-40 to +125	TSSOP14, CSP12 1.9×1.4, QFN12 2.0×1.7, QFN14 3.5×3.5
UMLSF0204D	Auto (EN is low-active)	4	200	0.8 to 4.5	1.8 to 5.5	No	Push-Pull/Open-Drain	GPIO, SPI, MDIO, SMBus, PMBus, I2C, UART, SVID	-40 to +125	TSSOP14, CSP12 1.9×1.4, QFN12 2.0×1.7, QFN14 3.5×3.5
UMLSF0108	Auto	8	200	0.8 to 4.5	1.8 to 5.5	No	Push-Pull/Open-Drain	GPIO, MDIO, SDIO, SVID, UART, SMBus, PMBus, I2C, SPI	-40 to +125	TSSOP20, VSSOP20, QFN20 4.5×2.5

-Q 产品通过车规认证 AEC-Q100 Qualified

隔离器件

Isolation

数字隔离器 | Digital Isolators

Part Number	Isolation Voltage (Vrms)	Surge Voltage Capability (Vpk)	CMTI (kV/μs)	Channels	Forward/Reverse Channels	Max Data Rate (Mbps)	Default Output	Operating Temperature Range (°C)	Package
UMISO7720	5000	8000	200	2	2/0	150	Low / High	-40 to +125	WSOP8, WSOP16
UMISO7721	5000	8000	200	2	1/1	150	Low / High	-40 to +125	WSOP8, WSOP16
UMISO7723	5000	8000	200	2	1/1	150	Low / High	-40 to +125	WSOP8, WSOP16
UMISO7331	5000	8000	150	3	2/1	0.15 / 10	Low / High	-40 to +125	WSSOP16
UMISO7740	5000	8000	200	4	4/0	150	Low / High	-40 to +125	WSOP16
UMISO7741	5000	8000	200	4	3/1	150	Low / High	-40 to +125	WSOP16
UMISO7742	5000	8000	200	4	2/2	150	Low / High	-40 to +125	WSOP16

隔离式 RS-485 收发器 | Isolated RS-485 Transceivers

Part Number	Isolation Voltage (Vrms)	Surge Voltage Capability (Vpk)	CMTI (kV/μs)	Duplex	Drivers/Receivers Per Package	Fault protection (V)	Max Data Rate (Mbps)	Logic Side Supply Voltage (V)	Bus Side Supply Voltage (V)	VIO Range (V)	Operating Temperature Range (°C)	Package
UMISO3481	5000	8000	200	Half	1 / 1	-15 to +15	1	2.5 to 5.5	3.0 to 5.5	-	-40 to +125	WSOP16
UMISO3481F	5000	8000	200	Full	1 / 1	-15 to +15	1	2.5 to 5.5	3.0 to 5.5	-	-40 to +125	WSOP16

隔离式 CAN 收发器 | Isolated CAN Transceivers

Part Number	Isolation Voltage (Vrms)	Surge Voltage Capability (Vpk)	CMTI (kV/μs)	Mode	Protocols	Fault protection (V)	Max Data Rate (Mbps)	Logic Side Supply Voltage (V)	Bus Side Supply Voltage (V)	Feature	Operating Temperature Range (°C)	Package
UMISO1050	5000	8000	200	Normal, Silent	CAN, CAN FD	-40 to +40	5	3.0 to 5.5	4.5 to 5.5	Silent	-40 to +125	WSOP8, WSOP16
UMISO1044	3750	6500	200	Normal, Standby	CAN, CAN FD	-40 to +40	8	3.0 to 5.5	4.5 to 5.5	Standby, VIO	-40 to +125	SOP8
UMISO1472	5000	8000	200	Normal, Standby	CAN, CAN FD	-70 to +70	8	3.0 to 5.5	4.5 to 5.5	Standby, SIC	-40 to +125	WSOP8, WSOP16

监控器和复位 IC

Supervisor & Reset ICs

▶ 监控器和复位 IC | Supervisor & Reset ICs

Part Number	Watchdog	Output driver type/ Reset output	Manual Reset Input	PFI Option	Typical Threshold voltage (V)	VCC Range (V)	Iq (typ) (mA)	Time delay (ms)	Operating Temperature Range (°C)	Package
UM803	No	Open-drain, Active-low	No	No	2.32, 2.63, 2.93, 3.08, 4.00, 4.38, 4.63	1.0 to 5.5	0.002	240	-40 to +85	SOT323/SOT23-3
UM803-Q	No	Open-drain, Active-low	No	No	2.93	1.0 to 5.5	0.002	240	-40 to +125	SOT23-3
UM805	No	Open-drain, Active-low	Yes	No	2.32, 2.63, 2.93, 3.08, 4.00, 4.38, 4.63	1.0 to 5.5	0.002	240	-40 to +85	SOT143
UM807	No	Open-drain, Active-low	Yes	No	2.32, 2.63, 2.93, 3.08, 4.00, 4.38, 4.63	1.0 to 5.5	0.002	240	-40 to +85	SOT143
*UM820	Yes (Programmable Watchdog)	Open-drain, Active-low	Yes	Yes	1.674, 1.728, 2.325, 2.400, 2.790, 2.880, 3.069, 3.168, 4.650, 4.800	1.6 to 6.5	0.0033	200	-40 to +125	DFN8 2.0×2.0, DFN8 3.0×3.0
UM810	No	Push-pull, Active-high	No	No	2.32, 2.63, 2.93, 3.08, 4.00, 4.38, 4.63	1.0 to 10	0.005	240	-40 to +85	SOT323/SOT23-3
UM812	No	Push-pull, Active-high	Yes	No	2.32, 2.63, 2.93, 3.08, 4.00, 4.38, 4.63	1.0 to 5.5	0.002	240	-40 to +85	SOT143
UM822	No	Push-pull, Active-high	Yes	No	2.32, 2.63, 2.93, 3.08, 4.00, 4.38, 4.63	1.0 to 5.5	0.002	240	-40 to +85	SOT143
UM809	No	Push-pull, Active-low	No	No	2.32, 2.63, 2.93, 3.08, 4.00, 4.38, 4.63	1.0 to 10	0.005	240	-40 to +85	SOT323/SOT23-3
UM811	No	Push-pull, Active-low	Yes	No	2.32, 2.63, 2.93, 3.08, 4.00, 4.38, 4.63	1.0 to 5.5	0.002	240	-40 to +85	SOT143
UM821	No	Push-pull, Active-low	Yes	No	2.32, 2.63, 2.93, 3.08, 4.00, 4.38, 4.63	1.0 to 5.5	0.002	240	-40 to +85	SOT143
UM825	No	Push-pull, Active-low / Active-high	Yes	No	2.19, 2.63, 2.93, 3.08, 4.38, 4.63	1.0 to 5.5	0.004	200	-40 to +85	SOT23-5/SOT353
UM708	No	Push-pull, Active-low / Active-high	Yes	Yes	2.63, 2.93, 3.08, 4.38, 4.63	1.0 to 5.5	0.08	200	-40 to +85	SOP8
UM813	Yes	Push-pull, Active-high	Yes	Yes	2.63, 2.93, 3.08, 4.38, 4.63	1.0 to 5.5	0.08	200	-40 to +85	SOP8
UM823	Yes	Push-pull, Active-low	Yes	No	2.19, 2.63, 2.93, 3.08, 4.38, 4.63	1.0 to 5.5	0.004	200	-40 to +85	SOT23-5/SOT353
UM823-Q	Yes	Push-pull, Active-low	Yes	No	2.93	1.0 to 5.5	0.004	200	-40 to +125	SOT23-5
UM706	Yes	Push-pull, Active-low	Yes	Yes	2.63, 2.93, 3.08, 4.38, 4.63	1.0 to 5.5	0.08	200	-40 to +85	SOP8, MSOP8
UM824	Yes	Push-pull, Active-low / Active-high	No	No	2.19, 2.63, 2.93, 3.08, 4.38, 4.63	1.0 to 5.5	0.004	200	-40 to +85	SOT23-5/SOT353

*产品预发布 Preview -Q 产品通过车规认证 AEC-Q100 Qualified

模拟开关和多路复用器

Analog Switches & Multiplexers

▶ 模拟开关和多路复用器 | Analog Switches & Multiplexers

Part Number	Channel	Architecture	Signal Type	VCC range (V)	Bandwidth (MHz)	RON (typ) (Ω)	CON (typ) (pF)	Typical Application	Operating Temperature Range (°C)	Package
Low Ron Analog Switches (Ron<1Ω)										
UM4157	1	SPDT	Single	1.65 to 4.3	70	0.8	90	GPIO	-40 to 85	SOT363
UM2268	2	SPDT	Single	1.8 to 4.4	80	0.4	56	—	-40 to 85	QFN10 1.8×1.4
UM4684	2	SPDT	Single	1.8 to 5.5	20	0.5	406	—	-40 to 85	CSP10 2.0×1.5, MSOP10
UM5223	2	SPDT	Single	1.65 to 4.5	75	0.5	55	—	-40 to 85	QFN10 1.8×1.4
UM3699A	2	DPDT	Single	1.65 to 5.5	20	0.6	230	—	-40 to 85	QFN16 3.0×3.0
*UMUX3718	2	SPDT (Negative Signaling Capability)	Single	2.5 to 5.5	150	0.7	42	—	-40 to 125	QFN10 1.8×1.4
High Bandwidth Data Switches (BW>200MHz)										
UM3156	1	SPDT	Single	1.65 to 5.5	230	10	20.1	GPIO	-40 to 85	SC70-6/SC88/SOT363
UM3156-Q	1	SPDT	Single	1.65 to 5.5	230	10	20.1	GPIO	-40 to 125	SC70-6/SC88/SOT363
UM3157	1	SPDT	Single	1.65 to 5.5	250	10	18.5	GPIO	-40 to 85	SC70-6/SC88/SOT363
*UM3157A	1	SPDT	Single	1.65 to 5.5	500	5	11	GPIO	-40 to 125	SC70-6/SC88/SOT363/SOT23-6
*UM3158	1	SPDT (with nOE)	Single	1.65 to 5.5	500	5	11	GPIO	-40 to 125	VSSOP8
UM4717	2	SPDT	Single	1.8 to 5.5	300	6	15	GPIO	-40 to 85	CSP10 1.9×1.4, QFN10 1.8×1.4
*UM4717A	2	SPDT	Single	1.65 to 5.5	500	5	11	GPIO	-40 to 125	MSOP10
UM3670	2	DPDT	Single	1.8 to 5.5	300	5	18	GPIO	-40 to 85	QFN16 3.0×3.0, QFN16 2.6×1.8

*产品预发布 Preview -Q 产品通过车规认证 AEC-Q100 Qualified

 模拟开关和多路复用器 (续) | Analog Switches & Multiplexers (continued)

Part Number	Channel	Architecture	Signal Type	VCC range (V)	Bandwidth (MHz)	RON (typ) (Ω)	CON (typ) (pF)	Typical Application	Operating Temperature Range (°C)	Package
UM3670-Q	2	DPDT	Single	1.8 to 5.5	300	5	18	GPIO	-40 to 125	QFN16 2.6×1.8
*UM3670B	2	DPDT	Single	1.65 to 5.5	500	5	11	GPIO	-40 to 125	QFN16 3.0×3.0, QFN16 2.6×1.8
*UM3671	2	DPDT (Dual)	Single	1.65 to 5.5	500	5	11	GPIO	-40 to 125	QFN16 3.0×3.0, QFN16 2.6×1.8
UM7222	2	DPDT	Differential	2.7 to 5.5	550	9	7	USB2.0	-40 to 85	QFN10 1.8×1.4, MSOP10
UM7227	2	DPDT	Differential	2.7 to 5.5	750	9.8	7	USB2.0	-40 to 85	QFN10 1.8×1.4, MSOP10
UM9636	2	SPDT	Differential	2.7 to 12	720	83	7.7	USB2.0	-40 to 85	QFN10 1.8×1.4
*UMUX3384	10	SPST (Powered-off Protection+2OE)	Single	1.65 to 5.5	540	5	9.8	GPIO	-40 to 125	TSSOP24, QFN24 3.5×5.5
Video Switch										
UM330	4	SPDT	Single	4.5 to 5.5	500	7	10	VGA	-40 to 85	TSSOP16
UM330-Q	4	SPDT	Single	4.5 to 5.5	500	7	10	VGA	-40 to 125	TSSOP16
*UM330A	4	SPDT (Integrated nOE)	Single	1.65 to 5.5	500	5	11	VGA	-40 to 125	TSSOP16

电源管理

Power Management

▶ 线性稳压器 | Low Dropout Regulator

Part Number	Input Voltage Range (V)	Output options	Iq (mA)	Output Current (mA)	Noise (μVRMS)	VOUT Range (V)	Dropout(mV)	PSRR @1kHz (dB)	EN control	Operating Temperature Range (°C)	Package
UM4750	2.5 to 5.5	Fixed	0.11	300 (Dual Output)	200	1.2 to 5.0	100	45	Yes	-40 to +125	SOT23-6 DFN6 2.0×2.0, DFN8 3.0×3.0
Low Output Noise Linear Regulator											
*UM1520	1.4 to 5.5	Fixed	0.065	300	23.1	1.0, 1.05, 1.1, 1.2, 1.8, 2.5, 2.7, 2.8, 3.0, 3.3	182	82	Yes	-40 to +125	SOT23-5, DFN4 1.0×1.0
*UM1522	1.4 to 5.5	Adjustable	0.065	300	23.1	1.0 to 3.6	182	82	Yes	-40 to +125	SOT23-5
*UM1523	1.4 to 5.5	Fixed	0.065	300	23.1	0.8	182	82	Yes	-40 to +125	SOT23-5, DFN4 1.0×1.0
*UM1521	1.4 to 5.5	Fixed	0.005	500	23.1	1.0, 1.05, 1.1, 1.2, 1.8, 2.5, 2.7, 2.8, 3.0, 3.3	182	90	Yes	-40 to +125	SOT23-5, DFN4 1.2×1.2
300mA/350mA CMOS Linear Regulators											
UM165xx	2.5 to 6.0	Fixed	0.09	300	—	2.8 / 3.3	90	65	No	-40 to +125	SOT23-3
UM175xx	2.5 to 6.0	Fixed	0.09	300	—	2.8 / 3.3	90	65	Yes	-40 to +125	SOT23-5
UM365xx	2.5 to 6.0	Fixed	0.05	300	200	1.2 to 5.0	150	—	No	-40 to +125	SOT23-3, SOT323
UM375xx	2.0 to 6.0	Fixed	0.05	300	170	1.2 to 5.0	150	—	Yes	-40 to +125	SOT23-5,SOT353
High Output Current CMOS Linear Regulator											
UM1770	2.5 to 6.0	Fixed / Adjustable	0.092	500	194	Fixed 1.0 to 4.0 Adjustable 1.0 to 5.0	220	60	Yes	-40 to +125	DFN6 2.0×2.0 SOT89-5, SOT23-5
UM1770-Q	2.5 to 6.0	Fixed / Adjustable	0.092	500	194	Fixed 1.0 to 4.0 Adjustable 1.0 to 5.0	220	60	Yes	-40 to +125	DFN6 2.0×2.0, SOT23-5
Ultra Low Quiescent Current Linear Regulators											
UM1530	1.8 to 6.0	Fixed	0.001	300	500	1.2 to 5.0	250	42	No	-40 to +125	SOT23-3 DFN6 2.0×2.0, DFN4 1.0×1.0
UM1540	1.8 to 6.0	Fixed	0.001	300	500	1.2 to 5.0	250	42	Yes	-40 to +125	SOT23-5 DFN4 1.0×1.0, DFN6 2.0×2.0
UM1550	1.8 to 8.0	Fixed	0.0025	300	115	1.2 to 5.0	250	42	No	-40 to +125	DFN6 2.0×2.0, DFN4 1.0×1.0 SOT23-3, SOT89-3
UM1560	1.8 to 8.0	Fixed	0.0025	300	115	1.2 to 5.0	250	42	Yes	-40 to +125	DFN6 2.0×2.0, DFN4 1.0×1.0 SOT23-5, SOT343

*产品预发布 Preview -Q 产品通过车规认证 AEC-Q100 Qualified

线性稳压器 (续) | Low Dropout Regulator (continued)

Part Number	Input Voltage Range (V)	Output options	Iq (mA)	Output Current (mA)	Noise (μVRMS)	VOUT Range (V)	Dropout(mV)	PSRR @1kHz (dB)	EN control	Operating Temperature Range (°C)	Package
Ultra Low Quiescent Current Linear Regulators											
UM14233	4.3 to 12.0	Fixed	0.008	300	44	3.3	270	60	No	-40 to +125	SOT23-3, SOT89-3
UM1430	3.6 to 18.0	Fixed	0.0048	30	450	2.0 to 6.0	250	45	No	-40 to +125	SOT23-3, SOT23-5, SOT89-3
UM1440	3.6 to 18.0	Fixed	0.0048	30	450	2.0 to 6.0	250	45	Yes	-40 to +125	SOT23-5, SOT89-5
UM1450	2.5 to 16.0	Fixed	0.002	250	240	2.5 to 5.0	300	40	No	-40 to +125	SOT23-3, SOT89-3
UM1460	2.5 to 16.0	Fixed / Adjustable	0.002	250	240	2.5 to 5.0	300	40	Yes	-40 to +125	SOT23-5, SOT89-5
UM1451	2.5 to 24.0	Fixed	0.0035	300	80	2.5 to 5.0	380	71	No	-40 to +125	SOT23-3, SOT89-3
UM1461	2.5 to 24.0	Fixed / Adjustable	0.0035	300	80	2.5 to 5.0	380	71	Yes	-40 to +125	SOT23-5, SOT89-5
UM1461-Q	2.5 to 24.0	Fixed / Adjustable	0.0035	300	80	2.5 to 5.0	380	71	Yes	-40 to +125	SOT23-5
UM1431	3.6 to 30	Fixed	0.0058	100	450	2.0 to 6.0	325	45	No	-40 to +125	SOT23-3, SOT23-5, SOT89-3
UM1441	3.6 to 30	Fixed	0.0058	100	450	2.0 to 6.0	325	45	Yes	-40 to +125	SOT23-5, SOT89-5
*UM1470	2.7 to 30	Fixed	0.001	150	190	1.2 to 6.5	295	52	No	-40 to +125	SOT23-3, SOT89-3
*UM1480	2.7 to 30	Fixed	0.001	150	190	1.2 to 6.5	295	52	Yes	-40 to +125	SOT23-5, DFN6 2.0×2.0

降压转换器 | DC-DC Buck

Part Number	Topology	Input Voltage Range (V)	Output Voltage (V)	Max Output Current (mA)	Quiescent Current (uA)	Switching Frequency (MHz)	Control Mode	Max Efficiency	Operating temperature range (°C)	Package
UM3501	Sync Buck	2.5 to 5.5	0.6 to VIN	600	50	1.2	PWM	90%	-40 to +85	SOT23-5, DFN6L 2.0×2.0
*UM3502	Sync Buck (Integrated Inductor)	2.5 to 5.5	0.6 to 5.0	600	60	1.2	PWM	90%	-40 to +85	QFN24 4.0×4.0
*UM3503	Sync Buck (Integrated Inductor)	2.5 to 5.5	1.0 to 5.0	1000	56	2.25	PWM	90%	-40 to +85	QFN24 4.0×4.0
*UM3506	Sync Buck (Integrated Inductor)	2.5 to 5.5	0.6 to 5.0	600	60	2.25	PWM	90%	-40 to +85	QFN14 2.5×2.5
UM3510	Sync Buck	2.5 to 6.0	0.6 to VIN	1000	56	2.25	PWM	95%	-40 to +85	SOT23-6, DFN6 2.0×2.0
*UM5483	Sync Buck	4.75 to 18.0	0.8 to 15.0	2300	600	0.34	PWM	92.5%	-40 to +85	SOT23-6
*UM5485	Sync Buck	4.5 to 18.0	0.76 to 7.0	3000	380	0.58	COT	93%	-40 to +85	SOT23-6
UM5482	Sync Buck	4.75 to 18.0	0.923 to 15.0	2000	600	0.34	PWM	90%	-40 to +85	SOP8
*UM5484	Sync Buck	4.0 to 36.0	0.8 to 0.9VIN	2000	600	0.2 to 2.4	PWM	95%	-40 to +85	SOP8-EP
*UM5486	Sync Buck	3.8 to 40.0	0.8 to 40.0	3500	25	0.3 to 2.2	PSM	95%	-40 to +85	SOP8-EP

*产品预发布 Preview -Q 产品通过车规认证 AEC-Q100 Qualified

 升压转换器 | DC-DC Boost

Part Number	Topology	Input Voltage Range (V)	Output Voltage (V)	Limit Current (mA)	Quiescent Current (uA)	Switching Frequency (MHz)	Control Mode	Max Efficiency	Operating Temperature Range (°C)	Package
*UM3426	Sync Boost	1.6 to 4.3	2.25 to 5.0	2300	350	1.2	PWM	92%	-40 to +85	SOT23-6
UM3429S	Sync Boost	0.5 to 5.0	2.5 to 5.0	600	20	0.5	PWM	92%	-40 to +85	SOT23-6
UM3430A	Sync Boost	2.3 to 5.0	2.5 to 5.0	1000	48	0.5	PWM	94%	-40 to +85	SOT23-6, DFN6 2.0×2.0
UM1660	Sync Boost	2.0 to 6.0	2.0 to 28.0	450	36	1	PFM	88%	-40 to +85	SOT23-5, DFN6L 2.0×2.0
*UM1666	Sync Boost	2.0 to 6.0	2.0 to 28.0	600	36	1	PFM	88%	-40 to +85	SOT23-5, DFN6L 2.0×2.0

 LED 照明驱动 | LED Lighting Driver

Part Number	Description	Topology	VIN Range (V)	Maximum LED Current (mA)	LED Current Accuracy (%)	Dimming Mode	Efficiency	Typical Sense Voltage (mV)	Iq (Typ) (mA)	Operating Temperature Range (°C)	Package
UM1350	30V Input 350mA Step-Down Current Mode LED Driver	Buck	6.0 to 30.0	350	5	PWM/Analog	95%	100	0.22	-40 to +85	SOT23-5
UM1351	35V Input 700mA Step-Down Current Mode LED Driver	Buck	6.0 to 35.0	700	5	PWM/Analog	98%	100	0.43	-40 to +85	SOT89-5 SOT23-5
UM1360	40V, 1A Step-Down Current Mode LED Driver, with Frequency Jitter	Buck	6.0 to 40.0	1000	5	PWM/Analog	98%	100	0.43	-40 to +85	SOT89-5
UM1361	40V Input 1A Step-Down Current Mode LED Driver	Buck	6.0 to 40.0	1000	5	PWM/Analog	> 90%	100	0.6	-40 to +85	SOT23-5

 LED 背光驱动 | LED Backlight Driver

Part Number	Topology	Channel	VIN Range (V)	VOUT Range (V)	Dimming Mode	ILIMIT (A)	Switching Frequency (kHz)	Max Efficiency	Application	Operating temperature range (°C)	Package
UM1663	Boost	1	2.8 to 5.5	VIN to 36	PWM	1.2	1000	85%	White LED Driver	-40 to +85	SOT23-6

*产品预发布 Preview

 MOS | MOSFET

Part Number	Type	VDS (V)	VGS (V)	VGS_TH (V)	Rds(on) at VGS=2.5 V (mΩ)	Rds(on) at VGS=4.5 V (mΩ)	ID - continuous drain current at TA=25°C (A)	Power dissipation (W)	Operating Temperature Range (°C)	Package
UM2301S	P-channel	-20	-8	-0.6	250	200	-1.5	0.86	-40 to +85	SOT23-3
UM2301P	P-channel	-20	-8	-0.6	250	200	-1.1	0.5	-40 to +85	SOT323
UM8515	P-channel	-20	-8	-0.6	110	90	-2	0.7	-40 to +85	SOT23-6
UM8516	P-channel	-20	-8	-0.6	60	52	-4	0.7	-40 to +85	SOT23-6
UM8517PP	P-channel	-20	-12	-0.7	130	90	-1.4	0.3	-40 to +85	SOT323
UM8517P6	P-channel	-20	-12	-0.7	130	110	-2.8	1	-40 to +85	SOT363
UM2302S	N-channel	20	8	0.6	150	90	2	0.86	-40 to +85	SOT23-3
UM2302P	N-channel	20	8	0.6	150	90	1.6	0.5	-40 to +85	SOT323
UM8120DA	N-channel	20	8	1.8	210	160	0.6	0.23	-40 to +85	DFN3 1.0×0.6
UM2362	N-channel	60	20	1	-	1700	0.115	0.2	-40 to +85	SOT23-3, SOT323

 负载开关 | Load Switches

Part Number	Feature	VCC Range (V)	Typical Ron (mΩ)	Quiescent Current (uA)	Shutdown Current (uA)	Current Limit (A)	Soft-Start	Operating Temperature Range (°C)	Package
*UM9711	High-Side Over Current Protection Power Switch with Flag	2.5 to 5.5	90	40	0.1	2.5	Yes	-40 to +85	SOT23-5, SOP8
*UM9712	High-Side Over Current Protection Power Switch with Flag	2.5 to 5.5	80	120	0.1	2.5	Yes	-40 to +85	SOP8, STO23-6, DFN6 2.0×2.0
UM3865P	Load Switch with Level Shifter	1.8 to 8.0	300	1	0.1	5	Yes	-40 to +85	SOT363

*产品预发布 Preview

光器件

Optical Devices

▶ 雪崩二极管 | APD

Part Number	Active Area Diameter (um)	Wavelength Range (nm)	Breakdown Voltage (V)	Responsivity @1550nm(M=1)	Dark Current (nA)	Bandwidth (0.9VBR, -30dbm) (GHz)	Cap (0.9VBR, 1MHz) (pF)	VBR Temperature Coefficient (dVBR/dT) (V/°C)	Multiplication Factor (0.9VBR, 30dbm)	Overload Power (0.9VBR)
UMLAPD10_02	30	1100 to 1650	26	0.85	< 100	7	0.22	0.05	8	0

▶ 光接收模块 | ROSA

Part Number	Data Rate (GHz)	Wavelength Range (nm)	Supply (V)	ICC (mA)	Responsivity (A/W)	Sensitivity (dBm)	Bandwidth (GHz)	Pin type
UMR10GR2	10	1110 to 1650	3.0 to 3.6	30	>6.5	<-26	>7	APD-TIA