

Demonstration boards

STMicroelectronics application support



September 2008

STMicroelectronics proposes a wide range of demonstration boards that may be used to perform a comprehensive evaluation of ST's products and solutions while reducing your development time.





These demonstration boards are classified as:

- product demonstration boards that help you evaluate the features and performance of selected products
- system demonstration boards that propose optimized and tested solutions for your application design


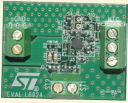





These boards are intended solely for your evaluation, design and testing purposes.

Product demonstration boards

Audio ICs

Sales code	Board	Description	Core products	Document
STEVAL-CCA001V1		Mono class audio amplifier based on TS4962MEIJT in flip chip	Standard linear: TS4962MEIJT	AN2134
STEVAL-CCA002V1		Low-voltage differential audio power amplifier based on TS4994IQT	Standard linear: TS4994IQT	AN2013
STEVAL-CCA003V1		Low-voltage stereo audio power amplifier based on TS4984IQT	Standard linear: TS4994IQT	AN2049
STEVAL-ICV001V1		Sound/voice playback demo board based on ST7FLite	8-bit microcontroller: ST7FLite	AN2400

Power management ICs

Sales code	Board	Description	Core products	Document
EVAL6902D		L6902D 1 A constant-current battery charger evaluation board	Step-down: L6902D	Data brief: EVAL6902D
EVAL6924D		L6924D battery charger system with integrated power switch for Li-ion/Li-polymer evaluation board	Voltage and current controller for battery management: L6924D	Data brief: EVAL6924D
DEMOTSM108		TSM108 voltage and current step-down PWM controller evaluation board	Voltage and current controller: TSM108	AN1695
EVAL4971		L4971 1.5 A step-down switching regulator evaluation board	Step down: L4971	AN937
EVAL4973		L4973 3.5 A step-down switching regulator evaluation board	Step down: L4973	AN938
EVAL5970D		L5970D up to 1 A step-down switching regulator evaluation board	Step down: L5970D	AN1330
EVAL5972D		L5972D up to 2 A step-down switching regulator evaluation board	Step down: L5972D	AN1517







Product demonstration boards

Power management ICs (cont'd)



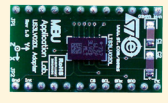
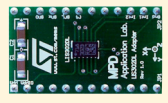

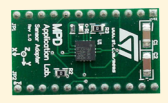
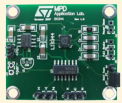
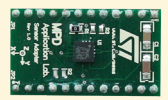
Sales code	Board	Description	Core products	Document
EVAL5973AD		L5973AD 2 A step-down switching regulator evaluation board	Step down: L5973AD	AN1723
EVAL5973D		L5973D up to 2.5 A step-down switching regulator evaluation board	Step down: L5973D	AN1518
EVAL6920D		L6920D 1 V high-efficiency synchronous step-up converter evaluation board	Step up: L6920	Data brief: EVAL6920D
EVAL6920DB1		L6920DB synchronous rectification step-up converter evaluation board	Step up: L6920DB	AN2206
EVAL6926D		L6926 high-efficiency monolithic synchronous step-down regulator evaluation board	Step down: L6926	AN1882
EVAL6928D		L6928D high-efficiency monolithic synchronous step-down regulator evaluation board	Step down: L6928	AN2115
EVAL6562-250W		L6562 250 W high-performance TM PFC	Power factor corrector: L6562	Data brief: EVAL6562-250W
EVAL6563-400W		400 W FOT PFC wide-range mains preregulator	Power factor corrector: L6563	Data brief: EVAL6563-400W
EVAL6563-80W		L6563 80 W high-performance TM PFC with active tracking boost function evaluation board	Power factor corrector: L6563	Data brief: EVAL6563-80W
EVAL6599-200W		200 W, 12 V-24 V, half-bridge LLC resonant SMPS with auxiliary for LCD TV evaluation board	Resonant controller: L6599	AN2393
EVAL6599-400W-S		Wide-range 400 W L6599-based HB LLC resonant converter for PDP applications	Resonant controller: L6599	AN2492
EVAL6599-400W-T		Wide-range 400 W (+200 V @ 1.6 A / +75 V @ 1 A) L6599-based HB LLC resonant converter	Resonant controller: L6599	AN2509
EVAL6599-90W		L6599 90 W high-performance half-bridge LLC resonant SMPS with PFC evaluation board	Resonant controller: L6599	AN2321
EVAL6668-75W		19 V - 75 W laptop adapter with tracking boost PFC pre-regulator, using the L6563 and L6668	Power factor corrector: L6563 PWM controller: L6668	AN2521
EVAL6668-STB		L6668 40 W high-performance flyback converter evaluation board	PWM controller: L6668	AN2242

Product demonstration boards

Power management ICs (cont'd)



Sales code	Board	Description	Core products	Document
EVAL6928Q1		L6928Q1 high-efficiency monolithic synchronous step-down converter evaluation board	Step down: L6928	AN2115
EVALSTSR30-60W		60 W flyback SMPS with secondary synchronous rectification evaluation board	PWM controller: L6668 Synchronous rectification controller: STSR30	AN2432
EVALTSM1052		Ultra small battery charger using TSM1052	Voltage and current controller: TSM1052	AN2448
EVL6562A-400W		L6562A 400 W FOT-controlled PFC pre-regulator evaluation board	Power factor corrector: L6562A	Data brief: EVL6562A-400W
EVL6562A-TM-80W		80 W high-performance transition mode PFC evaluation board	Power factor corrector: L6562A	Data brief: EVL6562A-TM-80W
EVL6566A-75WADP		19 V - 75 W laptop adapter with tracking boost PFC pre-regulator, using the L6563 and the L6566A	Power factor corrector: L6563 PWM controller: L6566A	Data brief: EVL6566A-75WADP

Motion sensors (MEMS)





Sales code	Board	Description	Core products	Document
STEVAL-MKI005V1		MEMS 3-axis, $\pm 2g/\pm 6g$ digital output, low-voltage linear accelerometer evaluation board based on LIS3LV02DL	MEMS: LIS3LV02DL	LIS3LV02DL datasheet
STEVAL-MKI006V1		MEMS 3-axis, $\pm 2g/\pm 8g$ digital output, low-power linear accelerometer evaluation board based on LIS302DL	MEMS: LIS302DL	LIS302DL datasheet
STEVAL-MKI009V1		LIS3LV02DL adapter board designed to be plugged into a standard DIL 20 socket	MEMS: LIS3LV02DL	LIS3LV02DL datasheet
STEVAL-MKI013V1		LIS302DL adapter board designed to be plugged into a standard DIL 24 socket	MEMS: LIS302DL	LIS302DL datasheet
STEVAL-MKI014V1		MEMS 3-axis $\pm 2g/\pm 6g$ analog output evaluation board based on LIS344ALH	MEMS: LIS344ALH	UM0534
STEVAL-MKI015V1		LIS344ALH adapter board designed to be plugged into a standard DIL 20 socket		UM0531
STEVAL-MKI016V1		MEMS 3-axis $\pm 3.5g$ analog output evaluation board based on LIS344AL	MEMS: LIS344AL	UM0536
STEVAL-MKI017V1		LIS344AL adapter board designed to be plugged into a standard DIL 20 socket		UM0398

Product demonstration boards

Motion sensors (MEMS) (cont'd)

Sales code	Board	Description	Core products	Document
STEVAL-MKI018V1		LIS244AL adapter board designed to be plugged into a standard DIL 20 socket		UM0530
STEVAL-MKI019V1		MEMS 3-axis $\pm 2g$ analog output evaluation board based on LIS302SG	MEMS: LIS302SG	UM0537

RF power ICs




Sales code	Board	Description	Core products	Document
STEVAL-TDR001V1		2-stage RF LDMOS amplifier evaluation board (AB-54003L-512)	RF power transistor: PD84001 RF power transistor: PD54003L-E	Data brief: STEVAL-TDR001V1
STEVAL-TDR003V1		2-stage RF LDMOS amplifier evaluation board (AB-54008L-175)	RF power transistor: PD84001 RF power transistor: PD54008L-E	Data brief: STEVAL-TDR003V1
STEVAL-TDR004V1		RF DMOS power amplifier reference design board	Transistor: SD2933	Data brief: STEVAL-TDR004V1
STEVAL-TDR005V1		RF DMOS power amplifier reference design board		Data brief: STEVAL-TDR005V1

System demonstration boards

Communication and connectivity

Sales code	Board	Description	Core products	Document
STEVAL-CDE001V1		Embedded web server based on ST7	8-bit microcontroller: ST72F321M9T6	UM0504
STEVAL-IKA001V1		STM32 interconnection board		UM0494
STEVAL-PCC001V1		Full-speed USB to serial bridge based on ST72F65	8-bit microcontroller: ST72F65	UM0323
STEVAL-PCC002V1		Low-speed USB to serial bridge based on ST7263B	8-bit microcontroller: ST7263B	UM0250
STEVAL-PCC003V1		Low-speed USB board based on STUSB03E transceiver and ST72F63B	Interface: STUSB03E 8-bit microcontroller: ST72F63B	UM0529
STEVAL-PCC004V1		Low-speed USB board based on STUSB02E transceiver and ST72F63B	Interface: STUSB02E 8-bit microcontroller: ST72F63B	UM0529
STEVAL-PCN001V1		USB power switch	8-bit microcontroller: ST72F621J4	UM0242
STEVAL-TCS001V1		24-bit port expander demo board with LCD, keypad and PWM interfaces based on STMPE2401	Logic: STMPE2401	UM0300
EVALCOMMBBOARD		Power-line transceiver communication and control board	Power-line transceivers: ST7538Q, ST7540	UM0240
EVALST7538DUAL		Dual-channel power-line transceiver board based on ST7538	Power-line transceiver: ST7538Q	UM0241
EVALST7540-1		Stripped down power-line transceiver evaluation board based on ST7540	Power-line transceiver: ST7540	UM0239, AN2451

Factory automation


Sales code	Board	Description	Core products	Document
STEVAL-IFD001V1		Full USB dongle based on STR912	32-bit microcontroller: STR912	UM0282
STEVAL-IFN001V2		Low-cost start development kit based on ST10F276Z5, oriented to multi-axis motion control	16-bit microcontroller: ST10F276	AN2388
STEVAL-IFN002V1		ARMIC30, CAN industrial controller using STR730 microcontroller	32-bit microcontroller: STR730	UM0193

System demonstration boards

Factory automation (cont'd)

Sales code	Board	Description	Core products	Document
STEVAL-IFP001V1		High-side driver - 8 channels based on VN808CM	VIPer: VN808CM	AN2443
STEVAL-IFP002V1		High-side driver - 8 channels based on VN808	VIPer: VN808CM	AN2208
STEVAL-IFP003V1		High-side driver - 4 channels based on VN340	VIPer: VN340	AN2208
STEVAL-IFP004V1		Digital input termination PCLT2	ASD thyristor: PCLT2A	AN2482
STEVAL-IFP005V1		High-side driver based on VN751PT	VIPer: VN751PT	Data brief: STEVAL-IFP005V1
STEVAL-IFP006V1		High-side driver based on VNI4140K	VIPer: VNI4140K	Data brief: STEVAL-IFP006V1
STEVAL-IFP008V1		Current-limiting termination based on CLT3-4	ASD thyristor: CLT3-4BT6	AN2527
STEVAL-IFS003V1		Temperature sensor board based on STLM75/STDS75 and ST72F651	STDS75M2F/STLM75M2F STDS75DS2F/STLM75DS2F	UM0452
STEVAL-IFS006V1		Smart inductive proximity switch based on ultra-lite 8-bit microcontroller + TDE1708	8-bit microcontroller: ST7LITEUS5 Intelligent power switch: TDE1708DFT	AN2679
STEVAL-IFS009V1		SPZB250 module for STR9 dongle	ZigBee module: SPZB250	UM0458
STEVAL-IFS010V1		SPZB260 module for STR9 dongle	MEMS: LIS302DL ZigBee: SN260	UM0456
STEVAL-IFW001V1		Real-time Ethernet slave-node evaluation board based on STR912FA	Flash MCU: STR912FA	UM0499
STEVAL-IFW002V1		Real-time Ethernet Xilinx FPGA extension for STEVAL-IFW001V1	Interface: ST3485EB	UM0502

Home appliance control

Sales code	Board	Description	Core products	Document
STEVAL-IHC001V1		Single-plate induction cooker based on ST7LITE09 and STGW40NC60WD (40 A, W series)	8-bit microcontroller: ST7LITE09 IGBT: STGW40NC60WD	AN2383

System demonstration boards

Home appliance control (cont'd)


Sales code	Board	Description	Core products	Document
STEVAL-IHM001V1		BLDC and AC motor control board	8-bit microcontroller: ST7FMC2	UM0121
STEVAL-IHM003V1		BLDC and AC motor control: power board, 300 W	IGBT: STGB6NC60HD	UM0122
STEVAL-IHM004V1		BLDC and AC motor control: power board, 1 kW	IGBT: STGF10NC60KD	UM0122
STEVAL-IHM005V1		BLDC and AC motor control: power board, 3 kW	IGBT: STGW20NC60VD	UM0122
STEVAL-IHM006V1		AC-AC chopper driver	8-bit microcontroller: ST7LITE05	AN2316
STEVAL-IHM007V1		Universal motor control starter kit (phase angle partialization)	8-bit microcontroller: ST7LITE30	UM0243
STEVAL-IHM008V1		Power board based on SEMITOP [®] 2	IGBT: STG3P2M10N60B	UM0251
STEVAL-IHM009V1		Power board based on SEMITOP [®] 3	IGBT: STG3P3M25N60	UM0252
STEVAL-IHM012V1		Cordless-drill evaluation board information based on power MOSFET and 8-pin MCU	8-bit microcontroller: ST7FLITEUS5	UM0291
STEVAL-IHM013V1		Low-end solution for a vacuum cleaner control board up to 2 kW	8-bit microcontroller: ST7FLITEUS5M6	UM0399
STEVAL-IHM017V1		100 W 3-phase inverter for BLDC sensorless motor evaluation board	8-bit microcontroller: ST7FMC2S4T6	UM0522
STEVAL-IHT001V1		Thermostat control board for refrigerator based on ST7Lite39	8-bit microcontroller: ST7LITE39	UM0277
STEVAL-IHT002V1		Basic thermostat control board for cooling applications based on ST7Ultralite	8-bit microcontroller: ST7Ultralite	AN2446

Home automation

Sales code	Board	Description	Core products	Document
STEVAL-IAC001V1		Alarm platform	8-bit microcontroller: ST72321	UM0272

System demonstration boards

Home automation (cont'd)

Sales code	Board	Description	Core products	Document
STEVAL-IAS001V1		Security keypad based on ST7FLite39 and STM1403	8-bit microcontroller: ST7FLite39F2M6	UM0408

Lighting

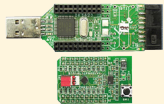


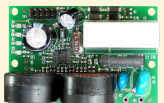
Sales code	Board	Description	Core products	Document
STEVAL-CLP001V1		PMOLED display power supply based on STOD2540	Voltage regulator: STOD2540	STOD2540 datasheet
STEVAL-ILB001V2		36 W - 220 V _{ac} low-cost HF ballast using the bipolar solution for PFC	Diodes	AN2349
STEVAL-ILB004V1		Multipower microcontrolled ballast for fluorescent tubes based on ST7Lite1B and STP5NK60Z	8-bit microcontroller: ST7Lite1B MOSFET: STP5NK60Z	AN2747
STEVAL-ILL001V1		Dimmable driver for HB power LEDs with VIPer22A (DALI connector)	VIPer: VIPer22A	AN2042
STEVAL-ILL002V3		HB LED with diagnostics (40 LEDs) based on STP08DP05	Logic, signal switch: STP08DP05	Data brief: STEVAL-ILL002V3
STEVAL-ILL002V4		HB LED with diagnostics (40 LEDs) based on STP08DP05	Logic, signal switch: STP08DP05	Data brief: STEVAL-ILL002V4
STEVAL-ILL003V1		HB LED without diagnostics (32 LEDs) based on STP16CP596	Advanced logic: STP16CP596	AN2141
STEVAL-ILL003V2		HB LED without diagnostics (32 LEDs) based on STP16CP05	Logic, signal switch: STP16CP05	AN2141
STEVAL-ILL004V2		Phase control dimmer board based on 8-pin Ultralite microcontroller (evaluation board)	8-bit microcontroller: ST7FLITEUS5B6	AN2425
STEVAL-ILL005V1		VIPer12A offline, constant-current driver for high-intensity LEDs	VIPer: VIPer12A	AN1916
STEVAL-ILL006V1		VIPer22A offline, constant-current driver for high-intensity LEDs	VIPer: VIPer22A	AN1916
STEVAL-ILL007V1		High-intensity LED driver for MR-16 format based on L5973D	Power supply: L5973D	AN2259
STEVAL-ILL008V1		LED flashlight demo	Power supply: L6920D	AN1941

System demonstration boards

Lighting (cont'd)

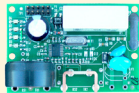

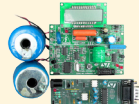
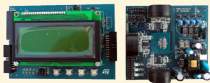

Sales code	Board	Description	Core products	Document
STEVAL-ILL009V1		RGB color control board based on STP04CM05	Advanced logic: STP04CM596	AN2531
STEVAL-ILL009V3		OSTAR projection module	Advanced logic: STP04CM596	AN2531
STEVAL-ILL009V4		OSRAM DRAGON LED module	Advanced logic: STP04CM596	AN2531
STEVAL-ILL010V1		High-intensity LED dimming driver based on L6902	Power management: L6902	AN2129
STEVAL-TLL001V1		White LED controller based on STLD40D	Voltage regulator: STLD40D	AN2333
STEVAL-TLL002V1		Flash driver based on STCF01	Voltage regulator: STCF01	AN2243
STEVAL-TLL003V1		Power flash driver based on STCF02	Voltage regulator: STCF02	AN2304
STEVAL-TLL005V1		Power flash evaluation board based on STCF03 and ST7 MCU (includes the STEVAL-TLL004V1)	Voltage regulator: STCF03 Microcontroller: ST7	Data brief: STEVAL-TLL005V1
EVAL6569		High-voltage IC driver for electronic lamp ballast	Ballast driver: L6569	AN880
EVAL6574B		Electronic ballast with PFC using L6574 and L6562	Ballast driver: L6574 PFC: L6562	AN993

Metering










Sales code	Board	Description	Core products	Document
STEVAL-IPA001V1		Anti-tamper and security kit based on STM1403/STM1404 + μ PSD3422EV	Advanced analog: STM1403 μ PSD3422EV	UM0283
STEVAL-IPB001V1		2 W 3-phase SMPS for breaker based on ESBT	ESBT: STC04IE170HP	AN1889
STEVAL-IPC001V1		Electronic fiscal cash register	8-bit microcontroller: ST7FLiteOS2Y0M6	UM0293
STEVAL-IPE002V1		Energy meter (mono phase), dual current-transformer measurement board	Interface: STPM01	UM0128

System demonstration boards

Metering (cont'd)






Sales code	Board	Description	Core products	Document
STEVAL-IPE003V1		Energy meter (mono phase), 1 current-transformer + shunt measurement board	Interface: STPM01	UM0125
STEVAL-IPE004V1		Energy meter (mono phase), 1 shunt measurement board	Interface: STPM01	UM0129
STEVAL-IPE007V1		Mono-phase energy meter based on ST7Flite	Microcontroller: ST7FLITE	UM0221
STEVAL-IPE008V1		Energy meter (three phase) based on STPM01 and STR715FR0 microcontroller	Interface: STPM01 8-bit microcontroller: STR715FR0	AN2512
STEVAL-IPR001V1		RFID reader evaluation board	Microcontroller: μ PSD34XX	UM0230

Motor control


Sales code	Board	Description	Core products	Document
EVAL6205N		L6205 DMOS dual full-bridge driver evaluation board	DMOS driver: L6205, L6206	AN1762
EVAL6206N		L6206 DMOS dual full-bridge driver in PowerDIP package evaluation board	DMOS driver: L6206, L6506	AN1762
EVAL6206PD		L6206 DMOS dual full-bridge driver in PowerSO package evaluation board	DMOS driver: L6206, L6506	AN1762
EVAL6207N		L6207N DMOS dual full-bridge driver with PWM current controller evaluation board	DMOS driver: L6207	AN1762
EVAL6208N		L6208 DMOS driver for bipolar stepper motor in PowerDip package evaluation board	DMOS driver: L6208	AN1451
EVAL6208PD		L6208 DMOS driver for bipolar stepper motor in PowerSO package evaluation board	DMOS driver: L6208	AN1451
EVAL6229PD		L6229 DMOS driver for three-phase brushless DC motor evaluation board	DMOS driver: L6229	AN1625
EVALPRACTISPIN		PractiSPIN evaluation and demonstration system interface board	DMOS driver: L6206, L6207, L6208, L6235 Microcontroller: ST72264	AN1794
EVAL6235N		L6235 DMOS driver for three-phase brushless DC motor evaluation board	DMOS driver: L6235	AN1794

System demonstration boards





Motor control (cont'd)

Sales code	Board	Description	Core products	Document
EVAL6225PD		L6225 DMOS dual full-bridge driver evaluation board	DMOS driver: L6225, L6505	AN1794
EVAL6227PD		L6227 DMOS dual full-bridge driver with PWM current controller evaluation board	DMOS driver: L6227	AN1794
EVAL6226QR		L6226Q DMOS dual full-bridge driver in QFN package evaluation board	DMOS driver: L6226Q	AN2758
EVAL6227QR		L6227Q DMOS dual full-bridge driver with PWM current controller in QFN package evaluation board	DMOS driver: L6227Q	AN2759
EVAL6228QR		L6228Q DMOS driver for bipolar stepper motor in QFN package evaluation board	DMOS driver: L6228Q	AN2757

PC peripheral interface

Sales code	Board	Description	Core products	Document
STEVAL-SCM001V1		RTC dongle demo board based on M41T62 and ST7 USB	Advanced analog: M41T62 8-bit microcontroller: ST7	Data brief: STEVAL-SCM001V1

Power supply and power management

Sales code	Board	Description	Core products	Document
STEVAL-ISA001V1		VIPer12A dual-output reference board, 85 to 264 V _{ac} input, 6 W output	VIPer: VIPer12A	AN1733
STEVAL-ISA002V1		VIPer12A single-output reference board, 85 to 264 V _{ac} input, 6 W output	VIPer: VIPer12A	AN1734
STEVAL-ISA004V1		VIPer22A dual-output reference board, 90 to 264 V _{ac} input, 10 W output	VIPer: VIPer22	AN1736
STEVAL-ISA005V1		1.8 W buck-topology power supply with VIPer12AS	VIPer: VIPer12AS	AN1894
STEVAL-ISA006V1		6 W non-isolated flyback-topology power supply with VIPer12AS	VIPer: VIPer12AS	AN1934
STEVAL-ISA007V1		3-phase auxiliary power supply design (150 W) based on emitter-switched bipolar transistors (ESBTs)	ESBT: STC08DE150 Power supply: L5991	AN2131
STEVAL-ISA009V1		VIPer53 single-output reference board, 90 to 264 V _{ac} input, 24 W output	VIPer: VIPer53	AN2001

System demonstration boards

Power supply and power management (cont'd)

Sales code	Board	Description	Core products	Document
STEVAL-ISA011V1		VIPer12A low-power AC-DC adapter (suitable for STEVAL-ILL002V1)	VIPer: VIPer12A	AN2272
STEVAL-ISA012V1		3-phase power supply with VIPer + MOSFETs	VIPer: VIPer12AS MOSFET: STD3NK50Z	AN2264
STEVAL-ISA013V1		VIPer53 dual-output offline, wide-range power supply, 24 W output	VIPer: VIPer53	AN2000
STEVAL-ISA014V1		VIPer12A travel adaptor, 3.6 W output	VIPer: VIPer12A	AN1484
STEVAL-ISA015V2		3-phase power supply with ESBT (100 W)	ESBT: STC04IE170HV	AN2252
STEVAL-ISA016V1		Power supply for STB based on L6565 (EU: 220 V)	Power supply: L6565	AN2447
STEVAL-ISA017V1		Power supply for STB based on L6565 (US: 110 V)	Power supply: L6565	AN2447
STEVAL-ISA019V2		80 W ESBT quasi-resonant wide-range SMPS with L6565 for 3-phase application (new version)	Power management: L6565	AN2495
STEVAL-ISA020V1		3.5 W battery charger with VIPer12AS/TSM101	VIPer: VIPer12AS Power management: TSM101CD	Data brief: STEVAL-ISA020V1
STEVAL-ISA023V1		Flyback AC-DC converter based on VIPer53E, 24 W positive output	VIPer: VIPer53E	AN2426
STEVAL-ISA023V2		Flyback AC-DC converter based on VIPer53E, 24 W negative output	VIPer: VIPer53E	AN2426
STEVAL-ISA024V1		Step-down DC-DC converter, 3.3 Vout/20 A, 250 kHz switching frequency based on L6725	Power supply: L6725	L6725 datasheet
STEVAL-ISA025V1		Step-down DC-DC converter, 3.3 Vout/30 A, 400 kHz switching frequency based on L6730	Power supply: L6730	L6730 datasheet
STEVAL-ISA026V1		Step-down DC-DC converter, 3.3 Vout/20 A, 250 kHz switching frequency based on L6732	Power supply: L6732	L6732 datasheet
STEVAL-ISA027V1		Single-phase step-down converter based on L6726A	Power supply: L6726A	L6726A datasheet

System demonstration boards

Power supply and power management (cont'd)

Sales code	Board	Description	Core products	Document
STEVAL-ISA028V1		Single-phase step-down converter based on L6727	Power supply: L6727	L6727 datasheet
STEVAL-ISA029V1		Compact power supply for DVD/set-top box with three Vout (-30 V/+3.3 V/+12 V)	VIPer: VIPer53	Data brief: STEVAL-ISA029V1
STEVAL-ISA030V1		6 W 3-phase SMPS for metering based on ESBT	ESBT: STC04IE170HP	AN2528
STEVAL-ISA032V1		60 W forward converter for electronic fiscal cash register based on L5991 and STP10NK60Z	Power management: L5991 Transistors: STP10NK60Z	Data brief: STEVAL-ISA032V1
STEVAL-ISA033V1		55 W flyback SMPS for alarm system based L5991 and STP12NK80Z	Power management: L5991 Transistors: STP10NK80Z	Data brief: STEVAL-ISA033V1
STEVAL-ISA034V1		10 W 3-phase auxiliary power supply based on L6565 and STP3N150	Power supply: L6565 Transistors: STP3N150	Data brief: STEVAL-ISA034V1
STEVAL-ISA037V1		Single-phase 20 A step-down converter based on PWM controller with PowerGOOD L6728	Power supply: L6728	L6728 datasheet
STEVAL-ISA038V1		Single-phase 5 A step-down converter based on PWM controller with PowerGOOD L6728	Power supply: L6728	L6728 datasheet
STEVAL-ISA042V1		1.5 A/1.2 V step-down DC-DC converter based on ST1S03	Power management: ST1S03	AN2093
STEVAL-ISA042V2		1.5 A/3.3 V step-down DC-DC converter based on ST1S03	Power management: ST1S03	AN2093
STEVAL-ISA043V1		1.5 A/1.2 V high-frequency synchronous buck converter based on ST1S06	Voltage regulator: ST1S06	AN2371
STEVAL-ISA043V2		1.5 A/3.3 V high-frequency synchronous buck converter based on ST1S06	Voltage regulator: ST1S06	AN2371
STEVAL-ISA044V2		3 A synchronous 900 kHz step-down DC-DC converter with inhibit function based on ST1S10	Voltage regulator: ST1S10	AN2620
STEVAL-ISA045V1		2 A/1.2 V high-efficiency synchronous buck converter based on ST1S09	Voltage regulator: ST1S09	AN2603
STEVAL-ISA045V2		2 A/3.3 V high-efficiency synchronous buck converter based on ST1S09	Voltage regulator: ST1S09	AN2603



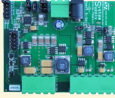
System demonstration boards

Power supply and power management (cont'd)

Sales code	Board	Description	Core products	Document
STEVAL-ISA046V1		2 A/1.2 V high-efficiency synchronous buck converter based on ST1S09I with inhibit	Voltage regulator: ST1S09I	AN2603
STEVAL-ISA046V2		2 A/3.3 V high-efficiency synchronous buck converter based on ST1S09I with inhibit	Voltage regulator: ST1S09I	AN2603
STEVAL-ISA048V1		1 A/adjustable Vout PWM synchronous step-up DC-DC converter based on ST8R00	Voltage regulator: ST8R00	AN2627
STEVAL-ISA048V2		1 A/adjustable Vout PWM synchronous step-up DC-DC converter based on ST8R00W	Voltage regulator: ST8R00	AN2627
STEVAL-ISA049V1		Synchronous dual buck converter with reset based on ST2S06A	Voltage regulator: ST2S06A	AN2681
STEVAL-ISA049V2		Synchronous dual buck converter with inhibit based on ST2S06B	Voltage regulator: ST2S06B	AN2681
STEVAL-ISA053V1		PM6680 evaluation kit, no Rsense dual step-down controller with adjustable voltages for notebook system power	Power supply: PM6680	AN2566
STEVAL-ISA053V2		PM6680A evaluation kit, dual synchronous step-down controller with adjustable output voltages plus LDO, industrial range	Power supply: PM6680A	AN2565
STEVAL-ISA055V1		0.7 A/1.2 V synchronous buck converter with enable based on ST1S12	Voltage regulator: ST1S12	AN2728
STEVAL-ISA055V2		0.7 A/3.3 V synchronous buck converter with enable based on ST1S12	Voltage regulator: ST1S12	AN2728
STEVAL-ISB001V1		Cell-phone battery charger based on STD1LNK60Z-1	Power MOSFET: STD1LNK60Z	AN2228
STEVAL-ISB002V1		Digital-camera battery charger design	8-bit microcontroller: ST72F324	AN2390
STEVAL-ISB003V1		USB single-cell Li-ion battery charger evaluation board based on ST7Lite15B as battery-charger controller and ST7260 as low-speed USB controller	8-bit microcontroller: ST7Lite, ST7260	UM0497
STEVAL-ISC001V1		30 W AC-DC adapter based on L6565	Power supply: L6565	AN1439
STEVAL-ISQ002V1		RS-232 to PMBus bridge evaluation board based on ST72264G1	8-bit microcontroller: ST72264G1	AN2511

System demonstration boards

Power supply and power management (cont'd)

Sales code	Board	Description	Core products	Document
STEVAL-ISS001V1		UPS (line interactive - 450 W) $V_{out} = 120\text{ V}$	8-bit microcontroller: ST72F63BE2M1	Data brief: STEVAL-ISS001V1
STEVAL-ISS001V2		UPS (line interactive - 450 W) $V_{out} = 220\text{ V}$	8-bit microcontroller: ST72F63BE2M1	Data brief: STEVAL-ISS001V2
STEVAL-PSQ001V1		Power management for CPU, FPGA and memories based on PM6680A	Power supply: PM6680A	AN2559



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