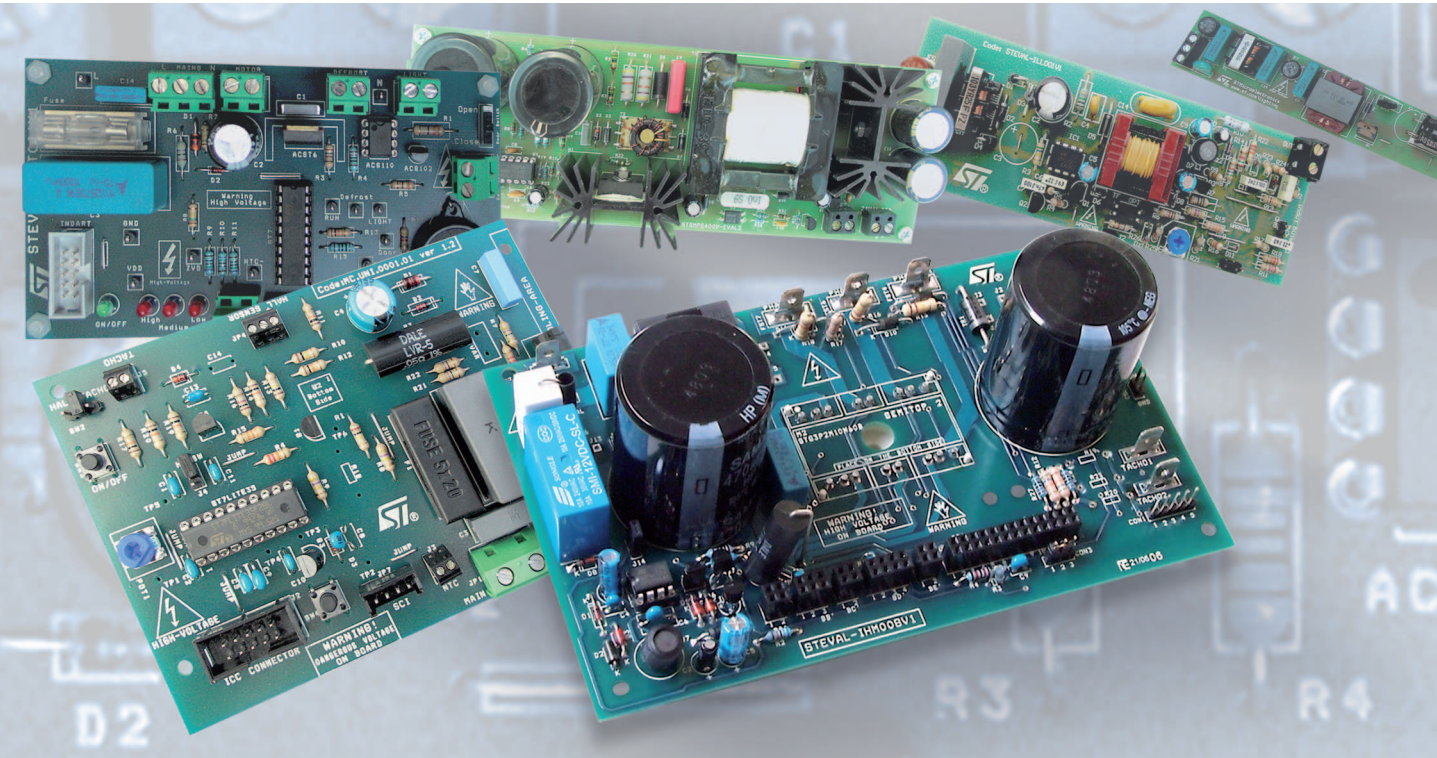


Evaluation boards

STMicroelectronics application support



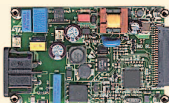
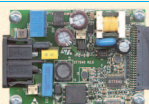
September 2007

If you want to evaluate ST's microcontrollers, power and analog product families for use in your new design, check out ST's new selection of evaluation boards. These tested and qualified application boards are ready-to-go solutions for your application needs and are available for ordering through www.st.com/evalboards.

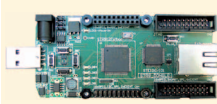
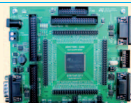
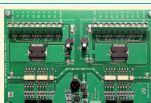
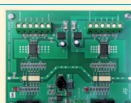
Audio

Sales code	Board	Description	Core products	Document
STEVAL-CCA002V1		Low-voltage differential audio power amplifier	Standard linear: TS4994IQT	AN2013
STEVAL-CCA003V1		Low-voltage audio power stereo amplifier	Standard linear: TS4994IQT	AN2049
STEVAL-ICV001V1		Sound / voice playback	8-bit microcontroller: ST7FLite	AN2400

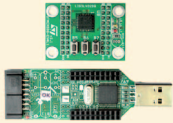
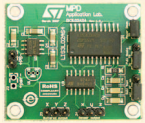
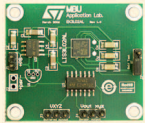
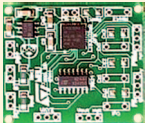
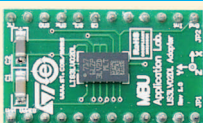
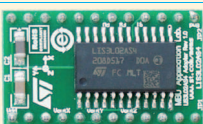
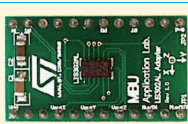
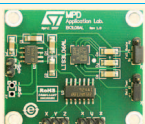
Communication and connectivity

EVALCOMMBBOARD		Communication / control board based on ST72F651AR6 microcontroller for power line communication and industrial products	8-bit microcontroller: ST72F651AR6	Data brief: EVALCOMMBBOARD
EVALST7538-2		Power-line transceiver board based on ST7538	Power-line transceiver: ST7538Q	Data brief: EVALST7538-2
EVALST7538DUAL		Dual channel power line transceiver board based on ST7538	Power-line transceiver: ST7538Q	Data brief: EVALST7538DUAL
EVALST7540-1		Power-line transceiver board based on ST7540	Power-line transceiver: ST7540	AN2451

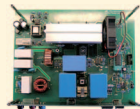
Factory automation

STEVAL-IFD001V1		Full USB dongle	8-bit microcontroller: STR912	UM0282
STEVAL-IFN001V2		Development kit ST10F276, low cost start development kit	16-bit microcontroller: ST10F276	AN2388
STEVAL-IFN002V1		ARMIC30, CAN industrial controller	32-bit microcontroller: STR730	UM0193
STEVAL-IFP001V1		High-side driver - 8 channels	High-side drivers: VN808CM	AN2443
STEVAL-IFP002V1		High-side driver - 8 channels	High-side drivers: VN808CM	AN2208
STEVAL-IFP003V1		High-side driver - 4 channels	High-side drivers: VN340	AN2208

Factory automation cont'd.

Sales code	Board	Description	Core products	Document
STEVAL-IFS001V1		3-axis MEMS accelerometer demo	MEMS: LIS3LV02DQ	AN2208
STEVAL-MKI001V1		MEMS analog-output evaluation board	MEMS: LIS3L02AS4	LIS3L02AS4 datasheet
STEVAL-MKI002V1		MEMS analog-output evaluation board	MEMS: LIS3L02AL	LIS3L02AL datasheet
STEVAL-MKI003V1		MEMS analog-output evaluation board	MEMS: LIS3L02AQ3	LIS3L02AQ3 datasheet
STEVAL-MKI004V1		MEMS 3-axis - $\pm 2g/\pm 6g$ digital-output low-voltage linear accelerometer evaluation board	MEMS: LIS3LV02DQ	LIS3LV02DQ datasheet
STEVAL-MKI005V1		MEMS 3-axis - $\pm 2g/\pm 6g$ digital-output low-voltage linear accelerometer evaluation board	MEMS: LIS3LV02DL	LIS3LV02DL Datasheet
STEVAL-MKI006V1		MEMS 3-axis - $\pm 2g/\pm 8g$ digital-output low-power linear accelerometer evaluation board	MEMS: LIS302DL	LIS302DL datasheet
STEVAL-MKI007V1		MEMS analog-output low-power 3-axis linear accelerometer	MEMS: LIS302ALB	LIS302ALB datasheet
STEVAL-MKI008V1		MEMS analog-output low-power 3-axis linear accelerometer	MEMS: LIS302ALK	LIS302ALK datasheet
STEVAL-MKI009V1		Adapter board to be plugged into a standard DIL 20 socket	MEMS: LIS3LV02DL	LIS3LV02DL datasheet
STEVAL-MKI010V1		Adapter board to be plugged into a standard DIL 20 socket	MEMS: LIS3L02AS4	LIS3L02AS4 datasheet
STEVAL-MKI011V1		Adapter board to be plugged into a standard DIL 20 socket	MEMS: LIS3L06AL	LIS3L06AL datasheet
STEVAL-MKI012V1		MEMS analog-output evaluation board	MEMS: LIS3L06AL	LIS3L06AL datasheet

Home appliance control

Sales code	Board	Description	Core products	Document
STEVAL-IHC001V1		Single-plate Induction cooker	8-bit microcontroller: ST7Lite09 IGBT: STGW40NC60WD	AN2383
STEVAL-IHM012V1		Cordless-drill evaluation board	8-bit microcontroller: ST7FLITEUS5	UM0291
STEVAL-IHT001V1		Thermostat control board for refrigerator	8-bit microcontroller: ST7LITE39	UM0277
STEVAL-IHT002V1		Basic thermostat control board for cooling applications	8-bit microcontroller: ST7Ultralite	AN2446

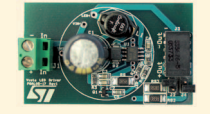
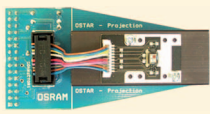
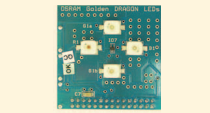
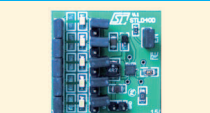
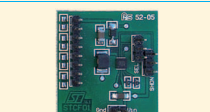
Home automation

STEVAL-IAC001V1		Alarm platform	8-bit microcontroller: ST72321	UM0272
STEVAL-SCM001V1		RTC dongle demo USB	Advanced analog: M41T62 8-bit microcontroller: ST7	

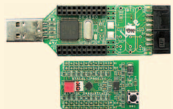
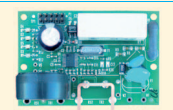
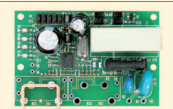
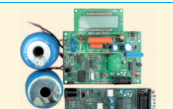
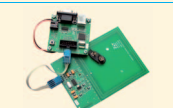
Lighting

STEVAL-ILB001V2		36 W - 220 Vac low-cost HF ballast using the bipolar solution for PFC	Diodes	AN2349
STEVAL-ILB002V1		Fixed output digital ballast for T5 and T8 fluorescent tubelamps	8-bit microcontroller: ST7Flite19BF1B6 Power supply: L6382D5	AN2459
STEVAL-ILC001V1		CCFL backlight half-bridge	Power MOSFET: STD7NS20T4	
STEVAL-ILL001V1		Dimmable driver for HB power LEDs (DALI connector)	ViPer: ViPer22A	AN2042
STEVAL-ILL002V1		HB LED with diagnostics (40 Osram blue LED)	Advanced logic: STFPC311 STP08CDC596	AN2415
STEVAL-ILL002V2		HB LED with diagnostics (40 Toshiba green LED)	Advanced logic: STP08CDC596	AN2415
STEVAL-ILL003V1		HB LED without diagnostics (32 LED)	Advanced logic: STP16CP596	AN2141
STEVAL-ILL004V2		Phase control dimmer board	8-bit microcontroller: ST7FLITEUS5B6	AN2425

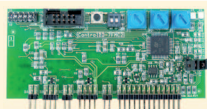
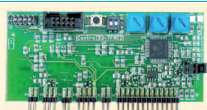
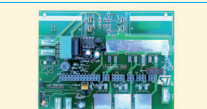
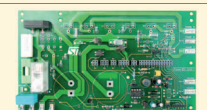
Lighting cont'd.

Sales code	Board	Description	Core products	Document
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	Power supply: L5973D	AN2259
STEVAL-ILL008V1		LED flashlight demo	Power supply: L6920D	AN1941
STEVAL-ILL009V1		RGB color control board	Advanced logic: STP04CM596	AN2531
STEVAL-ILL009V3		OSRAM projection module	Advanced logic: STP04CM596	AN2531
STEVAL-ILL009V4		OSRAM dragon LEDs module	Advanced logic: STP04CM596	AN2531
STEVAL-ILL011V1		RGB color control board for LCD backlighting	Advanced logic: ST6P8CL596 microcontroller: ST7	UM0419
STEVAL-TLL001V1		White LED controller	Voltage regulator: STLD40D	AN2333
STEVAL-TLL002V1		Flash driver	Voltage regulator: STCF01	AN2243
STEVAL-TLL003V1		Power Flash driver	Voltage regulator: STCF02	AN2304
EVAL6569		L6569 high-voltage half-bridge driver with oscillator evaluation board	Ballast half-bridge driver: L6569	AN880
EVAL6574B		L6574 CFL/TL ballast driver preheat and dimming evaluation board	Ballast half-bridge driver: L6574	AN993
EVAL6585D-230V		L6585D Combo IC for PFC and ballast control evaluation board	Ballast half-bridge driver: L6585D	AN2524

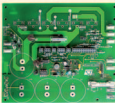
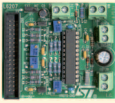
Metering

Sales code	Board	Description	Core products	Document
STEVAL-IPA001V1		Anti-tamper and security kit	Advanced analog: STM1403 μPSD DK3422 (WAKY)	UM0283
STEVAL-IPB001V1		2 W 3 -phase SMPS for breaker based on ESBT	ESBT: STC04IE170HP	AN1889
STEVAL-IPC001V1		Electronic fiscal cash register	8 bits microcontroller: ST7FLite0S2Y0M6	UM0293
STEVAL-IPE001V1		Energy meter (mono phase) / main board + STEVAL-IPE002V1	Interface: STPM01	UM0164
STEVAL-IPE002V1		Energy meter (mono phase) / 2 current transformer measurement board	Interface: STPM01	UM0128
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-IPE006V2		High-end energy meter	Microcontroller: μPSD33XX	UM0128
STEVAL-IPE007V1		Mono-phase energy meter based on ST7Flite	Micro: ST7Flite	UM0221
STEVAL-IPR001V1		RFID reader evaluation board	Microcontroller: μPSD34XX	UM0230

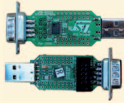
Motor control

STEVAL-IHM001V1		BLDC and AC motor control board	8-bit microcontroller: ST7FMC2	UM0121
STEVAL-IHM002V1		BLDC and AC motor control board + inDART	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

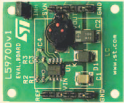
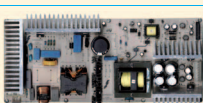
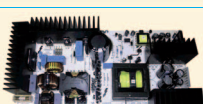
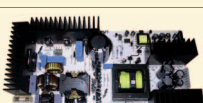
Motor control cont'd.

Sales code	Board	Description	Core products	Document
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
EVAL6205N		L6205 DMOS dual full-bridge driver evaluation board	Dual H-bridge: L6205	AN1762
EVAL6206N		L6206 DMOS dual full-bridge driver in PowerDIP package evaluation board	Dual H-bridge: L6206	AN1762
EVAL6206PD		L6206 DMOS dual full-bridge driver in PowerSO package evaluation board	Dual H-bridge: L6206	AN1762
EVAL6207N		L6207N DMOS dual full-bridge driver with power MOSFET current controller evaluation board	Dual H-bridge: L6207	AN1762
EVAL6208N		L6208 DMOS driver for bipolar stepper motor in PowerDip package evaluation board	Stepper driver: L6208	AN1451
EVAL6208PD		L6208 DMOS driver for bipolar stepper motor in PowerSO package evaluation board	Stepper driver: L6208	AN1451
EVAL6229PD		L6229 DMOS driver for three-phase brushless DC motor evaluation board	Three-phase brushless driver: L6229	AN1625
EVALPRACTISPIN		PractiSPIN interface board	Interface board	AN1794

PC peripheral interface

STEVAL-PCC001V1		Full-speed USB to serial bridge	8-bit microcontroller: ST72F65	UM0323
STEVAL-PCC002V1		Low-speed USB to serial bridge	8-bit microcontroller: ST7263B	UM0250

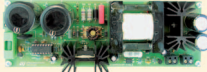
Power supply and power management

Sales code	Board	Description	Core products	Document
DEMOTSM108		TSM108 voltage and current step-down power MOSFET 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
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
EVAL6562-250W		L6562 250 W high-performance TM PFC	Power factor corrector: L6562	Data brief: EVAL6562-250W
EVAL6562-80W		L6562 80 W high-performance transition mode PFC evaluation board	Power factor corrector: L6562	Data brief: EVAL6562-80W
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 application	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

Power supply and power management cont'd.

Sales code	Board	Description	Core products	Document
EVAL6668-STB		L6668 40 W high-performance flyback converter evaluation board	Power MOSFET controller: L6668	AN2242
EVAL6725		L6725 adjustable step-down controller with synchronous rectification evaluation board	Step down: L6725	Data brief: EVAL6725
EVAL6730		L6730 adjustable step-down controller with synchronous rectification evaluation board	Step down: L6730	Data brief: EVAL6730
EVAL6732		L6732 adjustable step-down controller with synchronous rectification evaluation board	Step down: L6732	Data brief: EVAL6732
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
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	Power MOSFET controller: L6668 Synchronous rectification controller: STSR30	AN2432
EVALPM6680		Two adjustable outputs power controller for notebook PC chipset power evaluation board	Multi-output regulator: PM6680	AN2565
EVALPM6680A		Dual synchronous step-down controller with adjustable output voltages plus LDO evaluation board	Multi-output regulator: PM6680A	AN2566
EVAL6902D		L6902D 1 A constant-current battery charger evaluation board	Step down: L6902D	Data brief: EVAL6924D
EVALTSM1052		TSM1052 constant-voltage and constant-current controller for battery chargers and adapters evaluation board	Voltage and current controllers: TSM1052	AN2448
EVAL6924D		L6924D battery charger system with integrated power switch for Li-Ion/Li-Polymer evaluation board	Voltage and current controllers for battery management: L6924D	Data brief: EVAL6902D

Power supply and power management cont'd.

Sales code	Board	Description	Core products	Document
STEVAL-ISA001V1		VIPer12A dual-output reference board 85 to 264 Vac input, 6 W output	Viper: VIPer12A	AN1733
STEVAL-ISA002V1		VIPer12A single-output reference board 85 to 264 Vac input, 6 W output	Viper: VIPer12A	AN1734
STEVAL-ISA004V1		VIPer22A dual-output reference board 90 to 264 Vac 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)	ESBT: STC08DE150 Power supply: L5991	AN2131
STEVAL-ISA008V1		VIPer53 low-cost wide-range power supply for LCD or TV, 28 W output	Viper: VIPer53	AN1732
STEVAL-ISA009V1		VIPer53 single-output reference board 90 to 264 Vac input, 24 W output	Viper: VIPer53	AN2001
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-ISA019V1		80 W ESBT quasi-resonant wide-range SMPS with L6565 for 3-phase application	Power supply: L6565 ESBT: STC04IE17	AN2252
STEVAL-ISA021V1		VIPer22A single-output reference board 90 to 264 Vac input, 11 W output	Viper: VIPer22A	AN1735

Power supply and power management cont'd.

Sales code	Board	Description	Core products	Document
STEVAL-ISA022V1		6 W isolated flyback topology power supply with VIPer12AS	VIPer: VIPer12AS	AN2103
STEVAL-ISA023V1		Flyback AC-DC converter / 24 W positive output	VIPer: VIPer53E	AN2426
STEVAL-ISA023V2		Flyback AC-DC converter / 24 W negative output	VIPer: VIPer53E	AN2426
STEVAL-ISA024V1		Step-down DC-DC converter at 3.3 Vout / 20 A switching frequency 250 kHz	Power supply: L6725	L6725 datasheet
STEVAL-ISA025V1		Step-down DC-DC converter at 3.3 Vout / 30 A switching frequency 400 kHz	Power supply: L6730	L6730 datasheet
STEVAL-ISA026V1		Step-down DC-DC converter at 3.3 Vout / 20 A switching frequency 250 kHz	Power supply: L6732	L6732 datasheet
STEVAL-ISA027V1		Single-phase step-down converter	Power Supply: L6726A	L6726A datasheet
STEVAL-ISA028V1		Single phase step-down converter	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	
STEVAL-ISA030V1		6 W 3-phase SMPS for metering	ESBT: STC04IE170HP	AN2528
STEVAL-ISA037V1		Single-phase 20 A step-down based on power MOSFET controller with PowerGOOD L6728	Power supply: L6728	L6728 Datasheet
STEVAL-ISA038V1		Single-phase 5 A step-down based on power MOSFET controller with PowerGOOD L6728	Power supply: L6728	L6728 Datasheet
STEVAL-ISB001V1		Cell-phone battery charger	Power MOSFET: STD1LNK60Z	AN2228
STEVAL-ISB002V1		Digital-camera battery charger design	8-bit microcontroller: ST72F324	

Set-top-box

Sales code	Board	Description	Core products	Document
STEVAL-CBP001V2		STB / DVD front panel with LED	Advanced logic: STFP311	UM0276
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



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