

Car body solutions

Selection guide



May 2008

High-side drivers

Smart power high-side switches - single channel

Part number	Packages	Technology	Operating range V _{cc} [V]	Max supply voltage V _{cc} (max) [V]	Max on-state resistance R _{DS(on)} (max) [mΩ]	Current limitation I _{lim} (typ) [A]	Digital status	Current sense
VN03	PENTAWATT	M0-1	5.5 ÷ 36	60	500	4	•	
VN03SP	PowerSO-10	M0-1	5.5 ÷ 36	60	500	4	•	
VN02H	PENTAWATT	M0-1	5.5 ÷ 36	60	400	6	•	
VN02HSP	PowerSO-10	M0-1	5.5 ÷ 36	60	400	6	•	
VN02N	PENTAWATT	M0-1	7 ÷ 36	60	400	6	•	
VN02NSP	PowerSO-10	M0-1	7 ÷ 36	60	400	6	•	
VN06	PENTAWATT	M0-1	5.5 ÷ 36	60	360	9	•	
VN05N	PENTAWATT	M0-1	7 ÷ 36	60	180	13	•	
VN06SP	PowerSO-10	M0-1	5.5 ÷ 36	60	180	9	•	
VN800PT	PPAK	M0-3	5.5 ÷ 36	41	135	1.3	•	
VN800S	SO 8	M0-3	5.5 ÷ 36	41	135	1.3	•	
VN16B	PENTAWATT	M0-2	6 ÷ 36	40	60	20	•	
VN16BSP	PowerSO-10	M0-2	6 ÷ 36	40	60	20	•	
VN750	PENTAWATT	M0-3	5.5 ÷ 36	41	60	9	•	
VN750-B5	P ² PAK	M0-3	5.5 ÷ 36	41	60	9	•	
VN750LS	SO-8	M0-3	5.5 ÷ 36	41	60	16	•	
VN750S	SO-8	M0-3	5.5 ÷ 36	41	60	9	•	
VN750PT	PPAK	M0-3	5.5 ÷ 36	41	60	9	•	
VN750PEP-E	PowerSSO-12	M0-3	5.5 ÷ 36	41	60	9	•	
VN750SM	SO-8	M0-3	5.5 ÷ 36	41	55	9	•	
VN21	PENTAWATT	M0-1	5.5 ÷ 36	60	50	23	•	
VN820	PENTAWATT	M0-3	5.5 ÷ 36	41	40	13	•	
VN820SP	PowerSO-10	M0-3	5.5 ÷ 36	41	40	13	•	
VN820-B5	P ² PAK	M0-3	5.5 ÷ 36	41	40	13	•	
VN820PT	PPAK	M0-3	5.5 ÷ 36	41	40	13	•	
VN820SO	SO-16L	M0-3	5.5 ÷ 36	41	40	13	•	
VN31	PENTAWATT	M0-2	5.5 ÷ 36	60	30	31	•	
VN31SP	PowerSO-10	M0-2	5.5 ÷ 36	60	30	31	•	
VN460SP	PowerSO-10	M0-2	5.5 ÷ 36	45	20	25	•	
VN920D-B5	P ² PAK	M0-3	5.5 ÷ 36	41	18	45	•	
VN920DSO	SO-16L	M0-3	5.5 ÷ 36	41	18	45	•	
VN920	PENTAWATT	M0-3	5.5 ÷ 36	41	16	45		•
VN920-B5	P ² PAK	M0-3	5.5 ÷ 36	41	16	45		•
VN920SP	PowerSO-10	M0-3	5.5 ÷ 36	41	16	45		•
VN920SO	SO-16L	M0-3	5.5 ÷ 36	41	16	45		•
VN920DSP	PowerSO-10	M0-3	5.5 ÷ 36	41	16	45	•	

VN920PEP-E	PowerSO-10	M0-3	5.5 ÷ 36	41	10	75	•	
VN610SP	PowerSO-10	M0-3	5.5 ÷ 36	41	10	75		•
VN5160S-E	SO-8	M0-5	4.5 ÷ 36	41	160	5	•	
VN5E160AS-E*	SO-8	M0-5	4.5 ÷ 28	41	160	10		•
VN5E160S-E	SO-8	M0-5	4.5 ÷ 28	41	160	10	•	
VN5050J-E	PowerSSO-12	M0-5	4.5 ÷ 36	41	50	18	•	
VN5E050J-E	PowerSSO-12	M0-5	4.5 ÷ 28	41	50	27	•	
VN5050AJ-E	PowerSSO-12	M0-5	4.5 ÷ 36	41	50	18		•
VN5E050AJ-E	PowerSSO-12	M0-5	4.5 ÷ 28	41	50	27		•
VN5025AJ-E	PowerSSO-12	M0-5	4.5 ÷ 36	41	25	40		•
VN5E025AJ-E	PowerSSO-12	M0-5	4.5 ÷ 28	41	25	65		•
VN5016AJ-E	PowerSSO-12	M0-5	4.5 ÷ 36	41	16	60		•
VN5E016AH*	HPAK	M0-5	4.5 ÷ 28	41	16	73		•
VN5012AK-E	PowerSSO-24	M0-5	4.5 ÷ 36	41	12	65		•
VN5010AK-E	PowerSSO-24	M0-5	4.5 ÷ 36	41	10	65		•
VN5E010AH*	HPAK	M0-5	4.5 ÷ 28	41	10	85		•

For lead-free version, add the E suffix to the part number (where not indicated)

* Under development

High-side drivers

Smart power high-side switches - double channel

Part number	Packages	Technology	Operating range V _{cc} [V]	Max supply voltage V _{cc} (max) [V]	Max on-state resistance R _{DS(on)} (max) [mΩ]	Current limitation I _{lim} (typ) [A]	Digital status	Current sense
VND05B	HEPTAWATT	M0-2	6 ÷ 36	40	200	9	•	
VND05BSP	PowerSO-10	M0-2	6 ÷ 36	40	200	9	•	
VND810SP	PowerSO-10	M0-3	5.5 ÷ 36	41	160	5	•	
VND810	SO-16	M0-3	5.5 ÷ 36	41	160	5	•	
VND810PEP-E	PowerSSO-12	M0-3	5.5 ÷ 36	41	160	5	•	
VND810MSP	PowerSO-10	M0-3	5.5 ÷ 36	41	150			
VND10B	HEPTAWATT	M0-2	6 ÷ 36	40	100	14	•	
VND10BSP	PowerSO-10	M0-2	6 ÷ 36	40	100	14	•	
VND830	SO-16L	M0-3	5.5 ÷ 36	41	60	9	•	
VND830MSP	PowerSO-10	M0-3	5.5 ÷ 36	41	60	9	•	
VND830SP	PowerSO-10	M0-3	5.5 ÷ 36	41	60	9	•	
VND830ASP	PowerSO-10	M0-3	5.5 ÷ 36	41	60	9		•
VND830LSP	PowerSO-10	M0-3	5.5 ÷ 36	41	60	23	•	
VND830PEP-E	PowerSSO-24	M0-3	5.5 ÷ 36	41	60	9	•	
VND830AEP-E	PowerSSO-24	M0-3	5.5 ÷ 36	41	60	9		•
VND600	SO-16L	M0-3	5.5 ÷ 36	41	35	40	•	
VND600SP	PowerSO-10	M0-3	5.5 ÷ 36	41	30	40	•	
VND670SP	PowerSO-10	M0-3	5.5 ÷ 36	40	30	45	•	
VND600PEP-E	PowerSSO-24	M0-3	5.5 ÷ 36	41	30	40		•
VND920	SO-28	M0-3	5.5 ÷ 36	41	16	45		•
VND5160J-E	PowerSSO-12	M0-5	4.5 ÷ 36	41	160	5	•	
VND5E160J-E	PowerSSO-12	M0-5	4.5 ÷ 28	41	160	10	•	
VND5160AJ-E	PowerSSO-12	M0-5	4.5 ÷ 36	41	160	5		•
VND5E160AJ-E	PowerSSO-12	M0-5	4.5 ÷ 28	41	160	10		•
VND5050J-E	PowerSSO-12	M0-5	4.5 ÷ 36	41	50	18	•	
VND5E050J-E	PowerSSO-12	M0-5	4.5 ÷ 28	41	50	27	•	
VND5050K-E	PowerSSO-24	M0-5	4.5 ÷ 36	41	50	18	•	
VND5E050K-E	PowerSSO-24	M0-5	4.5 ÷ 28	41	50	27	•	
VND5050AJ-E	PowerSSO-12	M0-5	4.5 ÷ 36	41	50	18		•
VND5E050AJ-E	PowerSSO-12	M0-5	4.5 ÷ 28	41	50	27		•
VND5050AK-E	PowerSSO-24	M0-5	4.5 ÷ 36	41	50	18		•
VND5E050AK-E	PowerSSO-24	M0-5	4.5 ÷ 28	41	50	27		•
VND5025AK-E	PowerSSO-24	M0-5	4.5 ÷ 36	41	25	40		•
VND5E025AK-E	PowerSSO-24	M0-5	4.5 ÷ 28	41	25	60		•
VND5012AK-E	PowerSSO-24	M0-5	4.5 ÷ 36	41	12	60		•
VND5E012AY-E*	PowerSSO-36D	M0-5	4.5 ÷ 28	41	12	74		•
VND5E008AY*	PowerSSO-36D	M0-5	4.5 ÷ 28	41	8	85		•
VND5E006ASP*	PowerSO-16	M0-5	4.5 ÷ 28	41	6	100		•
VND5004BSP30-E	PowerSO-30	M0-5	4.5 ÷ 28	41	4	100		•
VND5004B-E	PowerQFN	M0-5	4.5 ÷ 28	41	4	100		•

For lead-free version, add the E suffix to the part number (where not indicated)
* Under development

Smart power high-side switches - quad channel

Part number	Packages	Technology	Operating range V _{cc} [V]	Max supply voltage V _{cc} (max) [V]	Max on-state resistance R _{DS(on)} (max) [mΩ]	Current limitation I _{lim} (typ) [A]	Digital status	Current sense
VNQ500PEP-E	PowerSSO-12	M0-3	5.5 ÷ 36	41	500	0.5	•	
VNQ810	SO-28	M0-3	5.5 ÷ 36	41	160	5	•	
VNQ810PEP-E	PowerSSO-24	M0-3	5.5 ÷ 36	41	160	7.5	•	
VNQ810M	SO-28	M0-3	5.5 ÷ 36	41	150	0.9	•	
VNQ05XSP16	PowerSO-16	M0-3	5.5 ÷ 36	41	110	7.5		•
VNQ690SP	PowerSO-10	M0-3	6 ÷ 36	41	90	14	•	
VNQ830	SO-28	M0-3	5.5 ÷ 36	41	65	9	•	
VNQ830A	SO-28	M0-3	5.5 ÷ 36	41	65	9		•
VNQ830M	SO-28	M0-3	5.5 ÷ 36	41	60	9	•	
VNQ830PEP-E	PowerSSO-24	M0-3	5.5 ÷ 36	41	60	18	•	
VNQ660SP	PowerSO-10	M0-3	5.5 ÷ 36	41	50	10	•	
VNQ600A	SO-28	M0-3	5.5 ÷ 36	41	35	40		•
VNQ600	SO-28	M0-3	5.5 ÷ 36	41	35	40	•	
VNQ600AP	SO-28	M0-3	5.5 ÷ 36	41	35	40		•
VNQ5E250AJ-E	PowerSSO-16	M0-5	4.5 ÷ 28	41	250	5		•
VNQ5160K-E	PowerSSO-24	M0-5	4.5 ÷ 36	41	160	5	•	
VNQ5E160K-E	PowerSSO-24	M0-5	4.5 ÷ 28	41	160	10	•	
VNQ5E160AK-E	PowerSSO-24	M0-5	4.5 ÷ 28	41	160	10		•
VNQ5050K-E	PowerSSO-24	M0-5	4.5 ÷ 36	41	50	18	•	
VNQ5E050AK-E	PowerSSO-24	M0-5	4.5 ÷ 28	41	50	27		•
VNQ5050AK-E	PowerSSO-24	M0-5	4.5 ÷ 36	41	50	18		•
VNQ5E050K-E	PowerSSO-24	M0-5	4.5 ÷ 28	41	27	27	•	
VNQ5027AK-E	PowerSSO-24	M0-5	4.5 ÷ 36	41	25	40		•

For lead-free version, add the E suffix to the part number (where not indicated)

OMNIFET™

Smart power low-side switches - single channel

Part number	Packages	Technology	Voltage clamp V _{clamp} (typ) [V]	Current limitation I _{lim} (typ) [A]	Max on-state resistance R _{DS(on)} (max) [mΩ]
VND10N06	DPAK	M0-2	60	10	300
VND10N06-1	IPAK	M0-2	60	10	300
VND1NV04	DPAK	M0-3	45	2.6	250
VNN1NV04	SOT-223	M0-3	45	2.6	250
VNS1NV04	SO-8	M0-3	45	2.6	250
VND1NV04-1	IPAK	M0-3	45	2.6	250
VND5N07	DPAK	M0-2	70	5	200
VND5N07-1	IPAK	M0-2	70	5	200
VNP5N07	TO-220	M0-2	70	5	200
VVNB10N07	D ² PAK	M0-2	70	10	140
VND7N04	DPAK	M0-2	42	7	140
VNP7N04	TO-220	M0-2	42	7	140
VNV10N07	PowerSO-10	M0-2	70	10	140
VND7N04-1	IPAK	M0-2	42	7	140
VNP10N07	TO-220	M0-2	70	10	140
VND3NV04	DPAK	M0-3	45	5	120
VND3NV04-1	IPAK	M0-3	45	5	120
VNN3NV04	SOT-223	M0-3	45	5	120
VNS3NV04	SO-8	M0-3	45	5	120
VNP10N06	TO-220	M0-2	60	10	300
VNB14N04	D ² PAK	M0-2	42	14	70
VNP14N04	TO-220	M0-2	42	14	70
VNV14N04	PowerSO-10	M0-2	42	14	70
VND7NV04	DPAK	M0-3	45	9	60
VNN7NV04	SOT-223	M0-3	45	9	60
VNS7NV04	SO-8	M0-3	45	9	60
VND7NV04-1	IPAK	M0-3	45	9	60
VNB20N07	D ² PAK	M0-2	70	20	50
VNP20N07	TO-220	M0-2	70	20	50
VNV20N07	PowerSO-10	M0-2	70	20	50
VNB49N04	D ² PAK	M0-2	42	49	40
VNV49N04	PowerSO-10	M0-2	42	49	40
VNP49N04	TO-220	M0-2	42	49	40
VNB28N04	D ² PAK	M0-2	42	28	35
VND14NV04	DPAK	M0-3	45	18	35
VNP14NV04	TO-220	M0-3	45	18	35
VNP28N04	TO-220	M0-2	42	28	35
VNS14NV04	SO-8	M0-3	45	18	35
VNV28N04	PowerSO-10	M0-2	42	28	35
VND14NV04-1	IPAK	M0-3	45	18	35
VNB14NV04	D ² PAK	M0-3	45	18	35
VNB35N07	D ² PAK	M0-2	70	35	28
VNV35N07	PowerSO-10	M0-2	70	35	28
VNP35N07	TO-220	M0-2	70	35	28
VNB35NV04	D ² PAK	M0-3	45	45	10
VNP35NV04	TO-220	M0-3	45	45	10
VNV35NV04	PowerSO-10	M0-3	45	45	10

For lead-free version, add the E suffix to the part number (where not indicated)

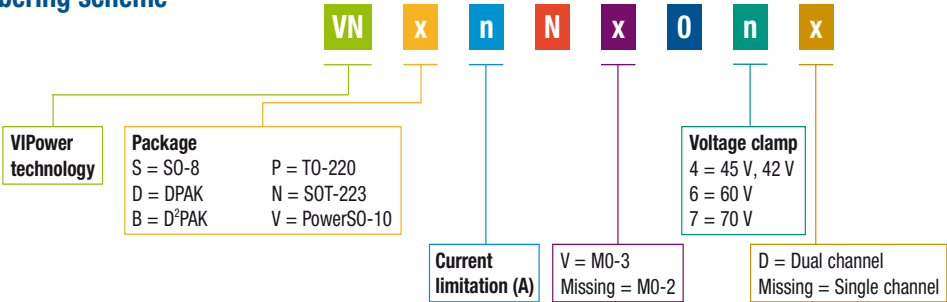
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Smart power low-side switches - double channel

Part number	Packages	Technology	Voltage clamp V _{clamp} (typ) [V]	Current limitation I _{lim} (typ) [A]	Max on-state resistance R _{DS(on)} (max) [mΩ]
VNS1NV04D	SO-8	M0-3	45	2.6	250
VNS3NV04D	SO-8	M0-3	45	5	120

For lead-free version, add the E suffix to the part number (where not indicated)
* Under development

OMNIFET part numbering scheme



OMNIFET PLUS

Smart power low-side switches - single channel

Part number	Packages	Technology	Voltage clamp V _{clamp} (typ) [V]	Current limitation I _{lim} (typ) [A]	Max on-state resistance R _{DS(on)} (max) [mΩ]	Digital status
VNL5160N3-E*	SOT-223	M0-5	46	5	160	
VNL5160S5-E*	SO-8	M0-5	46	5	160	•
VNL5050N3-E*	SOT-223	M0-5	46	27	50	
VNL5050S5-E*	SO-8	M0-5	46	27	50	•

* Under development

Voltage regulators

Part number	Packages	Outputs	Output range V _o [V]	Output current I _{out} [mA]	Accuracy	Drop voltage V _{ds} (typ) [mV]	Reset	Enable	Early warning	Watchdog	Watchdog enable	Inhibited Regulator Quiescent Current (typical) (μA)	Quiescent current at low load (typical) (μA)
L4988D	SO-8	1	5	200	± 2 %	270	•			•	•	-	130
L4988MD	SO-20												
L4947PD	PowerSO-20	1	5	500	± 4 %	400	•					-	5000
L4925PD	PowerSO-20	1	5	500	± 2 %	300	•					-	190
L4949ED	SO-8	1	5	100	± 1 %	300	•		•			-	200
L4949EP	SO-20												
L4979D	SO-8	1	5	150	± 2 %	200	•	•		•		6	100
L4979MD	SO-20												
L4989D	SO-8	1	5	150	± 3 %	180	•			•	•	-	110
L4989MD	SO-20												
L4993D	SO-8	1	5	150	±2 %	200	•			•	•	-	100
L4993MD	SO-20												
L4995RJ	PowerSSO-12	1	5	500	± 2 %	270	•					3	90
L4995RK	PowerSSO-24												
L4995AJ	PowerSSO-12	1	5	500	± 2 %	270	•	•				3	90
L4995AK	PowerSSO-24												
L4995J	PowerSSO-12	1	5	500	± 2 %	270	•	•		•		3	90
L4995K	PowerSSO-24												
L5150BN*	SOT-223	1	5	150	± 2 %	270						-	40
L5150CJ*	PowerSSO-12	1	5	150	± 2 %	270	• ⁽¹⁾		•			-	55
L5150GJ*	PowerSSO-12	1	5	150	± 2 %	270	• ⁽¹⁾	•	•	•		5	55
L4938ND	SO-20	2	5	50	± 2 %	300	•	•	•			-	210
L4938NPD	PowerSO-20		Adj	500									
L4938ED	SO-20	2	5	100	± 2 %	300	•	•	•			-	210
L4938EPD	PowerSO-20		Adj	400									

* Under development

(1) Adjustable threshold

Door zone systems

Part number	Packages	Driver stages	On-state resistance R _{on} [mΩ]	Current limitation I _{lim} (min) [A]	Operating range V _s [V]	PWM control	Short circuit protection	Current monitoring output	Over temperature protection	Charge pump (reverse battery protection)	Diagnostic and programming	Description
L9949	PowerSO-20	1 full bridge 3 half bridges 1 high-side switch	150 800 100	6 1.6 6	7 ÷ 28		•	•	•		SPI	Mid-end front door module
L9950	PowerSO-36	2 half bridges	300	3								
L9950XP	PowerSSO-36	1 full bridge 2 half bridges 4 high-side switches 1 high-side switch	800 150 800 100	1.5 6 1.5 6	7 ÷ 28	•	•	•	•	•	SPI	High-end front door module
L9951	PowerSO-36	1 half bridge	150	7.4								
L9951XP	PowerSSO-36	2 half bridges 2 high-side switches 3 half bridges	200 800 800	5 1.25 1.5	7 ÷ 28	•	•	•	•	•	SPI	Rear door module
L9953	PowerSO-36	1 full bridge	150	6								
L9953XP	PowerSSO-36	2 high-side switches 1 high-side switch	500 100	1.5 6	7 ÷ 28	•	•	•	•	•	SPI	Mid-end front door module
L9954	PowerSO-36	3 half bridges	800	1.5								
L9954XP	PowerSSO-36	2 high-side switches 1 high-side switch	500 100	1.5 6	7 ÷ 28	•	•	•	•	•	SPI	Mid-end front door module without door-lock
L99DZ70XP	PowerSSO-36	1 full bridge 2 half bridges 2 half bridges 1 high side switch 2 configurable high side switches 2 high side switches	150 300 1600 90 500/1800 1600	6 3 0.75 6 1.5/0.4 0.5	7 ÷ 28	•	•	•	•	•	SPI	High-end front door module compatible with bulbs/LEDs. Control circuitry for electrochromic mirror glass.

SBC - Transceiver and power-management

Part number	Packages	Transceiver		Voltage regulators					Driver stages		On board features	Description
		Transmission rate	Transceiver description	Outputs	Accuracy	Drop voltage VDP (typ) (mV)	Reset	Watchdog	Outputs	Driver description		
L9969URD	SO-20	125 kbaud	Fault tolerant low	5 V @ 180 mA	± 2 %	400	•	•				System basic chip
L9969UR	PowerSO-20		speed CAN transceiver	5 V @ 180 mA	± 4 %							
L9952GXP	PowerSSO-36	20 kBaud	LIN transceiver	5 V @ 200 mA	± 2 %	300	•	•	4	HSD 1 Ω @ 120 mA	• 4 wake-up inputs for contact monitoring • Inhibit input for wake up from external CAN • Two op amps for current sense interfacing • Fail-safe output	Companion chip
				5 V @ 50 mA	± 4 %	200				HSD 1 Ω @ 400 mA Relay drivers (2 Ω)		

Bridges – motor drivers

Part number	Packages	Technology	Driver stages	On-state resistance R _{on} [mΩ]	Current limitation I _{lim} (typ) [A]	Operating range V _{cc} [V]	Max supply voltage V _{cc} (max) [V]	Highlights
L9997ND	SO-20	BCD	2 half bridges	700	1.6	7 ÷ 16.5	26	Short-circuit and over temperature protected
VN770K	SO-28	M0-3	2 HSD and 2 LSD	170	9	5.5 ÷ 36	41	Short circuit and over temperature protected
VN771K	SO-28	M0-3	2 HSD and 2 LSD	80	9	5.5 ÷ 36	41	Short circuit and over temperature protected
VN772K	SO-28	M0-3	2 HSD and 2 LSD	95	9	5.5 ÷ 36	41	Short circuit and over temperature protected
VNH2SP30-E	MultiPowerSO-30	M0-4	Full bridge	16	50	5.5 ÷ 16	41	Cross conduction protection – PWM operations up to 20 KHz – current sense
VNH3SP30-E	MultiPowerSO-30	M0-3	Full bridge	35	45	5.5 ÷ 36	40	Cross conduction protection – PWM operations up to 10 KHz – current sense
VNH3ASP30-E	MultiPowerSO-30	M0-4	Full bridge	35	50	5.5 ÷ 16	41	Cross conduction protection – PWM operations up to 20 KHz – current sense
VN5770AK-E	SO-28	M0-5 M0-3	2 HSD and 2 LSD	280	8.5	4.5 ÷ 36	41	Active <i>power limitation</i> (patent IP) on high side
VN5772AK-E*	SO-28	M0-5	2 HSD and 2 LSD	100	18	4.5 ÷ 36	41	Active <i>power limitation</i> (patent IP) on both high side and low side
VNH5019A-E*	SO-28	M0-5	Full bridge	19	30	4.5 ÷ 24	41	Cross conduction protection - PWM operations up to 20 KHz - current sense
VNH5180*	PowerSSO-36	M0-5	2 HSD and 2 LSD	180	12	5.5 ÷ 18	41	Cross conduction protection - Output protected against short to ground and short to Vcc

* Under development

Special devices

Part number	Packages	Driver stages	Operating range V _{cc} [V]	Max supply voltage V _{cc} (max) [V]	Highlights	Description
L9700D	SO-8	Six channels limiter	4.75 ÷ 5.25	20	Fast active clamping	Limiter
L9686MD	SO-8	Relay driver for car direction indicator	8 ÷ 18		Lamp failure detection – load dump protected	Indicator driver
L99MC6	PowerSSO-16	Hexa configurable high side - low side driver	6 ÷ 28	40	Rds(on) = 0.7Ω at Tj=25°C	Configurable HS/LSD driver
L99H01XP*	PowerSSO-36 LQFP-32	Motor bridge driver	6 ÷ 28	35	Programmable free wheeling - Current sense amplifier / free configurable - Sensing circuitry of external MOSFET with embedded thermal sensor	Controller for 4 external N-channel MOS in bridge configuration
L99H01QF*						
VN1160	DPAK	Power switch for motorbike direction indicator	9 ÷ 16	40	Lamp failure detection – Indicator reverse battery protected	Motorbike indicator driver
VN1160-1	IPAK					

* Under development

Electronic ignition

Part number	Packages	Technolgy	High-voltage clamp V _{CLAMP} (typ) [V]	Coil current limit I _{CL} (max) [A]	Power stage saturation voltage V _{CE SAT} (max) [V]	Operating range V _{cc} [V]	Supply current (on state) I _{cc} (max) [mA]	Description
VB325SP	PowerSO-10	M1	380	11	2 @ 6 A	4.5 ÷ 5.5	40	Quasi proportional current driving. Current flag
VB326SP	PowerSO-10	M1	360	11	2 @ 6 A	4.5 ÷ 5.5	40	Quasi proportional current driving. Current flag
VB125ASP6	PowerSO-10	M1	370	11	2 @ 6 A	6 ÷ 24	200	Temperature compensated high voltage flag. Current flag. Voltage regulator not required.
VB025SP6	PowerSO-10	M1	380	10	2 @ 6.5 A	4.5 ÷ 5.5	40	Quasi proportional current driving. Current flag
VB027SP6	PowerSO-10	M1	360	9	2 @ 6 A	4.5 ÷ 5.5	130	Quasi proportional current driving. Current flag
VB615NB22T5SP	PENTAWATT	Smart IGBT	250	25	2.5 @ 15 A	5.2 ÷ 24	10	Max D-Well protection. Voltage regulator not required

8-, 16- and 32-bit automotive microcontroller families

Part number		Program memory type		Prog. (Kbytes)	RAM (bytes)	Data E ² PROM (bytes)	A/D inputs	Timer functions			Serial interface	LVD levels	I/Os (high current ²)	Packages	Supply voltage	Special features	
		Flash	ROM					12 or 16-bit (IC/OC/ PWM)	8-bit (IC/OC/ PWM)	Others							
STM8A: next generation 8-bit automotive fast core microcontrollers																	
STM8A with CAN																	
32 pins	STM8AF5166	⚬ ⁶		32	2 K	1 K	7x10-bit	3(8/8/8)	1(0/0/0)	CAN/LIN-UART/ SPI/PC	1	25(9)	LQFP32	3.0 to 5.5 V	STM8 CPU, single-wire ICP/ICD interface, nested interrupts, program memory ROP, WDG with independent clock, internal user trimmable RC oscillator 16 MHz, low-power internal RC oscillator 128 KHz, POR, BOR, CSS		
	STM8AF5176	⚬ ⁶		48	3 K	1.5 K											
	STM8AF5186	⚬ ⁶		64	4 K	1.5 K											
48 pins	STM8AF5168	⚬ ⁶		32	2 K	1 K	10x10-bit	3(9/9/9)	1(0/0/0)	CAN/LIN-UART/ SPI/PC/USART	1	40(9)	LQFP48				
	STM8AF5178	⚬ ⁶		48	3 K	1.5 K											
	STM8AF5188	⚬ ⁶		64	4 K	1.5 K											
64 pins	STM8AF5198	⚬ ⁶		96	6 K	2 K	16x10-bit	3(9/9/9)	1(0/0/0)	CAN/LIN-UART/ SPI/PC/USART	1	56(9)	LQFP64				
	STM8AF51A8	⚬ ⁶		128	6 K	2 K											
	STM8AF5169	⚬ ⁶		32	2 K	1 K											
80 pins	STM8AF5179	⚬ ⁶		48	3 K	1.5 K	16x10-bit	3(9/9/9)	1(0/0/0)	CAN/LIN-UART/ SPI/PC/USART	1	72(9)	LQFP80				
	STM8AF5189	⚬ ⁶		64	4 K	1.5 K											
	STM8AF5199	⚬ ⁶		96	6 K	2 K											
100 pins	STM8AF51A9	⚬ ⁶		128	6 K	2 K	28x10 bit	4(12/12/12)	1(0/0/0)	CAN/LIN-UART/ 2xSPI/2xPC/2xUSART	1	92(9)	LQFP100				
	STM8AF519A	⚬ ⁶		96	6 K	2 K											
	STM8AF51AA	⚬ ⁶		128	6 K	2 K											
128 pins	STM8AF51BA	⚬ ⁶		256	12 K	4 K	28x10 bit	4(12/12/12)	1(0/0/0)		1	120(9)	LQFP128				
	STM8AF51AB	⚬ ⁶		128	6 K	2 K											
	STM8AF51BB	⚬ ⁶		256	12 K	4 K											
	STM8AF51BC	⚬ ⁶		256	12 K	4 K											
STM8A without CAN																	
32 pins	STM8AF6146	⚬ ⁶		16	2 K	0.5 K	7x10-bit	2(6/6/6)	1(0/0/0)	LIN-UART/SPI	1	25(9)	LQFP32	3.0 to 5.5 V	STM8 CPU, single-wire ICP/ICD interface, nested interrupts, program memory ROP, WDG with independent clock, internal user trimmable RC oscillator 16 MHz, low-power internal RC oscillator 128 KHz, POR, BOR, CSS		
	STM8AF6166	⚬ ⁶		32	2 K	1 K											
	STM8AF6176	⚬ ⁶		48	3 K	1.5 K											
48 pins	STM8AF6186	⚬ ⁶		64	4 K	1.5 K	10x10-bit	3(8/8/8)	1(0/0/0)	LIN-UART/ SPI/PC	1	40(9)	LQFP48				
	STM8AF6148	⚬ ⁶		16	2 K	0.5 K											
	STM8AF6168	⚬ ⁶		32	2 K	1 K											
64 pins	STM8AF6178	⚬ ⁶		48	3 K	1.5 K	16x10-bit	3(9/9/9)	1(0/0/0)	LIN-UART/	1	56(9)	LQFP64				
	STM8AF6188	⚬ ⁶		64	4 K	1.5 K											
	STM8AF6198	⚬ ⁶		96	6 K	2 K											
80 pins	STM8AF61A8	⚬ ⁶		128	6 K	2 K	28x10 bit	4(12/12/12)	1(0/0/0)	SPI/PC/USART	1	72(9)	LQFP80				
	STM8AF6169	⚬ ⁶		32	2 K	1 K											
	STM8AF6179	⚬ ⁶		48	3 K	1.5 K											
100 pins	STM8AF6189	⚬ ⁶		64	4 K	1.5 K	28x10 bit	4(12/12/12)	1(0/0/0)	LIN-UART/ 2xSPI/2xPC/2xUSART	1	92(9)	LQFP100				
	STM8AF6199	⚬ ⁶		96	6 K	2 K											
	STM8AF61A9	⚬ ⁶		128	6 K	2 K											
128 pins	STM8AF619A	⚬ ⁶		96	6 K	2 K	28x10 bit	4(12/12/12)	1(0/0/0)		1	120(9)	LQFP128				
	STM8AF61AA	⚬ ⁶		128	6 K	2 K											
	STM8AF61BA	⚬ ⁶		256	12 K	4 K											
	STM8AF61AB	⚬ ⁶		128	6 K	2 K											
	STM8AF61BB	⚬ ⁶		256	12 K	4 K											
	STM8AF61BC	⚬ ⁶		256	12 K	4 K											
ST7: 8-bit industry standard fast core architecture with innovative peripherals (up to 64 Kbytes address space)																	
ST7FLxx Family																	
16 pins	ST7LUS5	⚬ ⁶	•	1	128		5x10-bit	1(0/1/1)3	1(1/0/0)		1	6(5)	S08	3.0 to 5.5 V	Internal RC oscillator, PLL, ROP, ICP, IAP		
	ST7LU05	⚬ ⁶	•	2	128												
	ST7LU09	⚬ ⁶	•	2	128	128											
20 pins	ST7LO5	⚬ ⁶	•	1.5	128		5x8-bit	2(1/4/4)3	2(1/0/0)	WDG, RTC	1	15(7)	S020				
	ST7LO9	⚬ ⁶	•	1.5	128	128											
	ST7L15 ¹	⚬ ⁶	•	4	256												
24 pins	ST7L19 ¹	⚬ ⁶	•	4	256	128	7x10-bit	2(1/4/4)3	2(1/0/0)	SPI	1	15(7)	S020				
	ST7L34 ¹	⚬ ⁶	•	8	384												
	ST7L35 ¹	⚬ ⁶	•	8	384												
28 pins	ST7L38 ¹	⚬ ⁶	•	8	384	256	12x10-bit	2(3/3/2)		WDG, RTC	SPI, LINSCI	1	15(7)	S020			
	ST7L39 ¹	⚬ ⁶	•	8	384	256											
ST7 mid-range																	
32 pins	ST7232AK1-Auto ¹	⚬ ⁶	•	4	384		8x10-bit	2(3/3/2)		WDG, RTC	SPI/SCI	3	24(10)	LQFP32	3.8 to 5.5 V	ICP, IAP, nested interrupts, TLI, ROP, beep	
	ST7232AK2-Auto ¹	⚬ ⁶	•	8	384												
	ST72324BK2-Auto ¹	⚬ ⁶	•	8	384												
	ST72324BK4-Auto ¹	⚬ ⁶	•	16	512												
	ST72324BK6-Auto ¹	⚬ ⁶	•	32	1 K												
	ST72324BLK6-Auto ¹	⚬ ⁶	•	32	1 K												
	ST72325K4-Auto ¹	⚬ ⁶	•	16	512		6x10-bit	1(2/2/1)	1(1/1/3)	WDG, RTC	SPI/SCI/PC	3	32(12)	LQFP32	3.8 to 5.5 V	CSS, ICP, IAP, nested interrupts, TLI, ROP, beep	
	ST72325K6-Auto ¹	⚬ ⁶	•	32	1 K												
	ST72361K4-Auto ¹	⚬ ⁶	•	16	512												
	ST72361K6-Auto ¹	⚬ ⁶	•	32	1 K												
	ST72361K7-Auto ¹	⚬ ⁶	•	48	1.5 K												
	ST72361K9-Auto ¹	⚬ ⁶	•	60	2 K												
40 pins	ST7232AJ1-Auto ¹	⚬ ⁶	•	4	384		12x10-bit	2(3/3/2)		WDG, RTC	SPI/SCI	3	32(12)	LQFP44	3.8 to 5.5 V	ICP, IAP, nested interrupts, TLI, ROP, beep	

8-, 16- and 32-bit automotive microcontroller families

Part number		Program memory type		Prog. (Kbytes)	RAM (bytes)	Data E ² PROM (bytes)	A/D inputs	Timer functions			Serial interface	LVD levels	I/Os (high current ²)	Packages	Supply voltage	Special features			
		Flash	ROM					12 or 16-bit (IC/OC/ PWM)	8-bit (IC/OC/ PWM)	Others									
ST7 Mid-Range																			
44 pins	ST7232AJ2-Auto	• ⁶	•	8	384		12x10-bit	2(3/3/2)			WDG, RTC	SPI/SCI	3	32 (12)	LQFP44	3.8 to 5.5 V	ICP, IAP, nested interrupts, TLI, ROP, beep		
	ST72324BJ2-Auto	• ⁶	•	8	384		12x10-bit	2(3/3/2)					3	32 (12)	LQFP44				
	ST72324BJ4-Auto	• ⁶	•	16	512		12x10-bit	2(3/3/2)					3	32 (12)	LQFP44				
	ST72324BJ6-Auto	• ⁶	•	32	1K		12x10-bit	2(3/3/2)					3	32 (12)	LQFP44				
	ST72324BLJ6-Auto	• ⁶	•	32	1K		12x10-bit	2(3/3/2)				32 (12)	LQFP44	2.85 to 3.6 V					
	ST72321BJ6-Auto	• ⁶	•	32	1K		12x10-bit	2(3/3/2)	1(0/4/4)		3	32 (12)	LQFP44						
	ST72321BLJ6-Auto	• ⁶	•	32	1K		12x10-bit	2(3/3/2)	1(0/4/4)		3	32 (12)	LQFP44						
	ST72321BJ7-Auto	• ⁶	•	48	1.5K		12x10-bit	2(3/3/2)	1(0/4/4)		3	32 (12)	LQFP44						
	ST72321BJ9-Auto	• ⁶	•	60	2K		12x10-bit	2(3/3/2)	1(0/4/4)	ART, WDG, RTC	SPI/SCI/PC	3	32 (12)	LQFP44	3.8 to 5.5 V				
	ST72325J4-Auto	• ⁶	•	16	512		12x10-bit	2(3/3/2)	1(0/4/4)				3	32 (12)		LQFP44			
	ST72325J6-Auto	• ⁶	•	32	1K		12x10-bit	2(3/3/2)	1(0/4/4)				3	32 (12)		LQFP44			
	ST72325J7-Auto	• ⁶	•	48	1.5K		12x10-bit	2(3/3/2)	1(0/4/4)				3	32 (12)		LQFP44			
	ST72325J9-Auto	• ⁶	•	60	2K		12x10-bit	2(3/3/2)	1(0/4/4)		3	32 (12)	LQFP44	CSS, ICP, IAP, nested interrupts, TLI, ROP, beep					
	ST72361J4-Auto	• ⁶	•	16	512		11x10-bit	1(2/2/1)	1(2/1/5)		1	34 (6)	LQFP44						
	ST72361J6-Auto	• ⁶	•	32	1K		11x10-bit	1(2/2/1)	1(2/1/5)	ART, WWDG, RTC	SPI/2xSCI	1	34 (6)		LQFP44	4.5 to 5.5 V			
	ST72361J7-Auto	• ⁶	•	48	1.5K		11x10-bit	1(2/2/1)	1(2/1/5)				1		34 (6)			LQFP44	
ST72361J9-Auto	• ⁶	•	60	2K		11x10-bit	1(2/2/1)	1(2/1/5)				1	34 (6)	LQFP44					
64 pins	ST72321BAR6-Auto	• ⁶	•	32	1K		16x10-bit	2(4/4/2)	1(2/4/4)			SPI/SCI/PC	3	48 (16)	LQFP64 (10x10)	3.8 to 5.5 V	ICP, IAP, nested interrupts, TLI, ROP, beep		
	ST72321BR6-Auto	• ⁶	•	32	1K		16x10-bit	2(4/4/2)	1(2/4/4)				3	48 (16)	LQFP64 (14x14)				
	ST72321BAR7-Auto	• ⁶	•	48	1.5K		16x10-bit	2(4/4/2)	1(2/4/4)				3	48 (16)	LQFP64 (10x10)				
	ST72321BR7-Auto	• ⁶	•	48	1.5K		16x10-bit	2(4/4/2)	1(2/4/4)				3	48 (16)	LQFP64 (14x14)				
	ST72321BAR9-Auto	• ⁶	•	60	2K		16x10-bit	2(4/4/2)	1(2/4/4)				3	48 (16)	LQFP64 (10x10)				
	ST72321BR9-Auto	• ⁶	•	60	2K		16x10-bit	2(4/4/2)	1(2/4/4)				3	48 (16)	LQFP64 (14x14)				
	ST72325AR6-Auto	• ⁶	•	32	1K		16x10-bit	2(4/4/2)	1(2/4/4)	ART, WDG, RTC	SPI/SCI/PC	3	48 (16)	LQFP64 (10x10)	3.8 to 5.5 V				
	ST72325R6-Auto	• ⁶	•	32	1K		16x10-bit	2(4/4/2)	1(2/4/4)				3	48 (16)		LQFP64 (14x14)			
	ST72325AR7-Auto	• ⁶	•	48	1.5K		16x10-bit	2(4/4/2)	1(2/4/4)				3	48 (16)		LQFP64 (10x10)	CSS, ICP, IAP, nested interrupts, TLI, ROP, beep		
	ST72325R7-Auto	• ⁶	•	48	1.5K		16x10-bit	2(4/4/2)	1(2/4/4)				3	48 (16)		LQFP64 (14x14)			
	ST72325AR9-Auto	• ⁶	•	60	2K		16x10-bit	2(4/4/2)	1(2/4/4)				3	48 (16)		LQFP64 (10x10)			
	ST72325R9-Auto	• ⁶	•	60	2K		16x10-bit	2(4/4/2)	1(2/4/4)				3	48 (16)		LQFP64 (14x14)			
	ST72361AR4-Auto	• ⁶	•	16	512		16x10-bit	1(2/2/1)	2(4/2/5)	ART, WWDG, RTC	SPI/2xSCI/CAN	1	48 (6)	LQFP64 (10x10)	4.5 to 5.5 V	ICP, IAP, nested interrupts, TLI, ROP, beep			
	ST72361AR6-Auto	• ⁶	•	32	1K		16x10-bit	1(2/2/1)	2(4/2/5)				1	48 (6)			LQFP64 (10x10)		
	ST72361AR7-Auto	• ⁶	•	48	1.5K		16x10-bit	1(2/2/1)	2(4/2/5)				1	48 (6)			LQFP64 (10x10)		
	ST72361AR9-Auto	• ⁶	•	60	2K		16x10-bit	1(2/2/1)	2(4/2/5)				1	48 (6)			LQFP64 (10x10)		
ST7 application specific																			
Low end car audio	ST7FAUDIOJ6-Auto	• ⁶		32	1K		12x10-bit	2(3/3/2)	1(0/4/4)			ART, WDG, RTC	SPI/SCI/PC	3	32 (12)	LQFP44	3.8 to 5.5 V	ICP, IAP, nested interrupts, TLI, ROP	
	ST7FAUDIOJ7-Auto	• ⁶		48	1.5K		12x10-bit	2(3/3/2)	1(0/4/4)					3	32 (12)	LQFP44			
	ST7FAUDIOJ9-Auto	• ⁶		60	2K		12x10-bit	2(3/3/2)	1(0/4/4)					3	32 (12)	LQFP44			
	ST7FAUDIOAR6-Auto	• ⁶		32	1K		16x10-bit	2(4/4/2)	1(2/4/4)					3	48 (16)	LQFP64 (10x10)			
	ST7FAUDIOR6-Auto	• ⁶		32	1K		16x10-bit	2(4/4/2)	1(2/4/4)					3	48 (16)	LQFP64 (14x14)			
	ST7FAUDIOAR7-Auto	• ⁶		48	1.5K		16x10-bit	2(4/4/2)	1(2/4/4)					3	48 (16)	LQFP64 (10x10)			
	ST7FAUDIOR7-Auto	• ⁶		48	1.5K		16x10-bit	2(4/4/2)	1(2/4/4)					3	48 (16)	LQFP64 (14x14)			
	ST7FAUDIOAR9-Auto	• ⁶		60	2K		16x10-bit	2(4/4/2)	1(2/4/4)					3	48 (16)	LQFP64 (10x10)			
	ST7FAUDIOR9-Auto	• ⁶		60	2K		16x10-bit	2(4/4/2)	1(2/4/4)					3	48 (16)	LQFP64 (14x14)			
	ST72521AR6-Auto	• ⁶	•	32	1K		16x10-bit	2(4/4/2)	1(2/4/4)		SPI/SCI/PC/CAN	3	48 (16)	LQFP64 (10x10)	Nested interrupts, TLI, ROP, beep, CAN (2.0B passive)				
	ST72521R6-Auto	• ⁶	•	32	1K		16x10-bit	2(4/4/2)	1(2/4/4)			3	48 (16)	LQFP64 (14x14)					
	ST72561J6-Auto	• ⁶	•	32	1K		11x10-bit	1(2/2/1)	1(2/1/5)			1	34 (6)	LQFP44					
	CAN	ST72561K6-Auto	• ⁶	•	32	1K		6x10-bit	1(2/2/1)	1(1/1/3)	ART, WWDG, RTC	SPI/2xSCI/CAN	1	24 (5)	LQFP32	4.5 to 5.5 V	Nested Interrupts, TLI, ROP, SCIs with LIN features (LINSCI), CAN 2.0B active, window watchdog, auto wake up		
		ST72561AR6-Auto	• ⁶	•	32	1K		16x10-bit	1(2/2/1)	2(4/2/5)				1	48 (6)				LQFP64 (10x10)
		ST72561R6-Auto	• ⁶	•	32	1K		16x10-bit	1(2/2/1)	2(4/2/5)				1	48 (6)				LQFP64 (14x14)
		ST72521AR9-Auto	• ⁶	•	60	2K		16x10-bit	2(4/4/2)	1(2/4/4)	ART, WDG, RTC	SPI/SCI/PC/CAN	3	48 (16)	LQFP64 (10x10)	3.8 to 5.5 V	Nested interrupts, TLI, ROP, beep, CAN (2.0B passive)		
ST72521R9-Auto		• ⁶	•	60	2K		16x10-bit	2(4/4/2)	1(2/4/4)				3	48 (16)	LQFP64 (14x14)				
ST72521M9-Auto		• ⁶	•	60	2K		16x10-bit	2(4/4/2)	1(2/4/4)				3	64 (16)	LQFP80				
ST72561J9-Auto		• ⁶	•	60	2K		11x10-bit	1(2/2/1)	1(2/1/5)	ART, WWDG, RTC	SPI/2xSCI/CAN	1	34 (6)	LQFP44	4.5 to 5.5 V	Nested Interrupts, TLI, ROP, SCIs with LIN features (LINSCI), CAN 2.0B active, window watchdog, auto wake up			
ST72561K9-Auto		• ⁶	•	60	2K		6x10-bit	1(2/2/1)	1(1/1/3)				1	24 (5)			LQFP32		
ST72561AR9-Auto		• ⁶	•	60	2K		16x10-bit	1(2/2/1)	2(4/2/5)				1	48 (6)			LQFP64 (10x10)		
ST72561R9-Auto		• ⁶	•	60	2K		16x10-bit	1(2/2/1)	2(4/2/5)				1	48 (6)			LQFP64 (14x14)		
Motor control	ST7MC1K2-Auto	• ⁶	•	8	384		8x10-bit	1(2/2/1)	1(1/0/1)	ART, WWDG, RTC	LINSCI	1	17 (3)	LQFP32	4.5 to 5.5 V	Sensorless brushless motor control cell, SCIs with LIN features (LINSCI), ICD, ICP, IAP, LVD, CSS/PLL, ROP, RTC, nested interrupts			
	ST7MC1K6-Auto	• ⁶		32	384		8x10-bit	1(2/2/1)	1(1/0/1)				1	17 (3)			LQFP32		
	ST7MC2S4-Auto	• ⁶	•	16	768		11x10-bit	2(2/2/1)	1(1/0/1)		LINSCI/SPI	1	26 (6)	LQFP44					
	ST7MC2S6-Auto	• ⁶		32	1024		11x10-bit	2(2/2/1)	1(1/0/1)				1	26 (6)			LQFP44		

8-, 16- and 32-bit automotive microcontroller families

[illegible]

Mature 8-bit automotive microcontroller families

ST6: 8-bit general purpose control applications (up to 8 Kbytes address space)														
16 pins	ST6200CM-Auto ⁰		● ⁶	1	64		4x8-bit	1(0/0/0)	WDG		1	9 (3)	S016	3.0 to 6 V
	ST6201CM-Auto ¹		● ⁶	2	64		4x8-bit	1(0/0/0)	WDG		1	9 (3)	S016	3.0 to 6 V
	ST6203CM-Auto ⁰		● ⁶	1	64			1(0/0/0)	WDG		1	9 (3)	S016	3.0 to 6 V
	ST62T52CM-Auto ⁰		● ⁶	2	128		4x8-bit	1+1(1/1/1)	WDG		1	9 (5)	S016	3.0 to 6 V
	ST62T62CM-Auto ¹		● ⁶	2	128	64	4x8-bit	1+1(1/1/1)	WDG		1	9 (5)	S016	3.0 to 6 V
20 pins	ST6208CM-Auto ⁰		● ⁶	1	64			1(0/0/0)	WDG		1	12 (4)	S020	3.0 to 6 V
	ST6209CM-Auto ⁰		● ⁶	1	64		4x8-bit	1(0/0/0)	WDG		1	12 (4)	S020	3.0 to 6 V
	ST6210CM-Auto ⁰		● ⁶	2	64		8x8-bit	1(0/0/0)	WDG		1	12 (4)	S020	3.0 to 6 V
	ST6220CM-Auto ¹		● ⁶	4	64		8x8-bit	1(0/0/0)	WDG		1	12 (4)	S020	3.0 to 6 V
	ST6215CM-Auto ¹		● ⁶	2	64		16x8-bit	1(0/0/0)	WDG		1	20 (4)	S028	3.0 to 6 V
28 pins	ST6225CM-Auto ¹		● ⁶	4	64		16x8-bit	1(0/0/0)	WDG		1	20 (4)	S028	3.0 to 6 V
	ST62T55CM-Auto ⁰		● ⁶	4	128		13x8-bit	1+1(1/1/1)	WDG		1	20 (4)	S028	3.0 to 6 V
	ST62T65CM-Auto ¹		● ⁶	4	128	128	13x8-bit	1+1(1/1/1)	WDG		1	20 (4)	S028	3.0 to 6 V

ST7: 8-bit Industry Standard Fast Core Architecture with innovative peripherals (up to 64Kbytes address space)

ST7 Baseline

	ST72104G1-Auto	•	•	4	256			1(2/2/1)		WDG	SPI	3	22 (8)	S028	3.2 to 5.5 V	
	ST72216G1-Auto	•	•	4	256	6x8-bit		1(2/2/1)		WDG	SPI	3	22 (8)	S028	3.2 to 5.5 V	
28 pins	ST72254G1-Auto	•	•	4	256	6x8-bit		2(4/4/2)		WDG	SPI/I ² C	3	22 (8)	S028	3.2 to 5.5 V	RC oscillator, clock security system, ISP, ROP
	ST72104G2-Auto	•	•	8	256			1(2/2/1)		WDG	SPI	3	22 (8)	S028	3.2 to 5.5 V	
	ST72215G2-Auto	•	•	8	256	6x8-bit		2(4/4/2)		WDG	SPI	3	22 (8)	S028	3.2 to 5.5 V	
	ST72254G2-Auto	•	•	8	256	6x8-bit		2(4/4/2)		WDG	SPI/I ² C	3	22 (8)	S028	3.2 to 5.5 V	
	ST72124J2-Auto	•	•	8	384			2(3/3/2)		WDG, RTC	SPI/SCI	3	32 (4)	LQFP44	3.2 to 5.5 V	
44 pins	ST72314J2-Auto	•	•	8	384	6x8-bit		2(3/3/2)		WDG, RTC	SPI/SCI	3	32 (4)	LQFP44	3.2 to 5.5 V	RC oscillator, clock security system, ISP, ROP, beep
	ST72334J2-Auto	•	•	8	384	6x8-bit	256	2(3/3/2)		WDG, RTC	SPI/SCI	3	32 (4)	LQFP44	3.2 to 5.5 V	
	ST72314J4-Auto	•	•	16	512	6x8-bit		2(3/3/2)		WDG, RTC	SPI/SCI	3	32 (4)	LQFP44	3.2 to 5.5 V	
	ST72334J4-Auto	•	•	16	512	6x8-bit	256	2(3/3/2)		WDG, RTC	SPI/SCI	3	32 (4)	LQFP44	3.2 to 5.5 V	
	ST72314N4-Auto	•	•	16	512	8x8-bit		2(3/3/2)		WDG, RTC	SPI/SCI	3	44 (8)	LQFP64	3.2 to 5.5 V	
64 pins	ST72334N4-Auto	•	•	16	512	8x8-bit	256	2(3/3/2)		WDG, RTC	SPI/SCI	3	44 (8)	LQFP64	3.2 to 5.5 V	

ST7 application specific

MC	ST72141K2-Auto ¹	8	256	8x8-bit	2(4/4/2)	WDG	SPI	1	26 (3)	S034	4.0 to 5.5 V	Sensorless brushless permanent magnet DC motor controller
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All products are available also in their lead free version. The "E" suffix is added to the part number in case of LF package

Abbreviations

- ADC : Analog-to-digital converter
- ART : Auto-reload timer
- AWU : Auto wake-up from HALT
- BOR : Brown-out reset
- CAN : Controller area network
- CSS : Clock security system
- IAP : In-application programming
- IC/CD : Input capture/output compare ICP programming
- ICD : In-circuit Debugger
- ICP : In-circuit programming
- ISP : In-situ programming
- ISC : Inter-integrated circuit
- LIN : Local interconnect network
- LVD : Low voltage detection
- MC : Motor control
- PLL : Phase locked loop
- POR : Power-on reset
- PWM : Pulse width modulation
- ROP : Readout protection
- RTC : Real-time clock timer
- SCI : Serial communication interface
- SPI : Serial peripheral interface
- UART : Universal asynchronous receiver transmitter
- WDG : Watchdog timer
- WWDG : Window watchdog timer

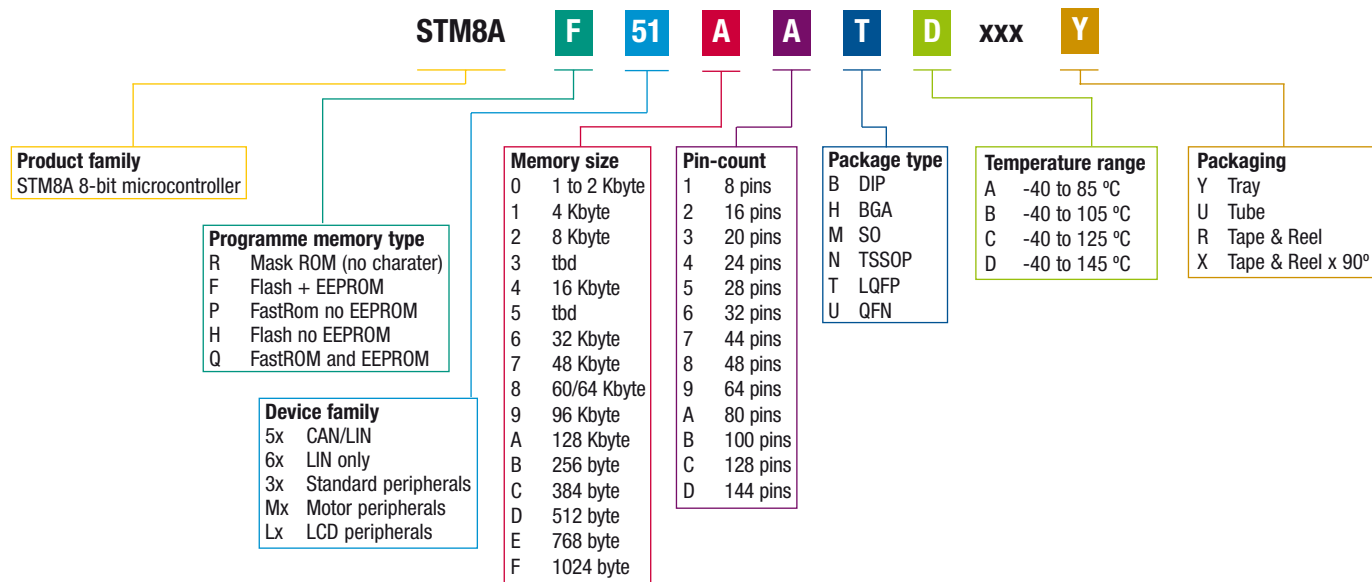
Packages

PQFP : Plastic quad flat package
SO : Small outline
LQFP : Low-profile quad flat package

Notes

- * : Under development
- 0 : Exists also in OTP version
- 1 : Exists also in OTP and EPROM version
- 2 : Number of high current pins included in the number of I/O pins
- 3 : Feature count refers to 12-bit timer
- 4 : HFlash (high-density Flash)
- 5 : XFlash (extended Flash for 10 kcycle min)
- 6 : FASTROM service available for pre-programmed devices in production quantities

Part numbering scheme





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