



P/N	# of Ch	mA/Ch max	Interface	V _{LED} Max	PWM Freq. Max (kHz)	PWM Resolution (bits)	Global Current Adj (bits)	AEC-Q100	ANR	Dot Cor	SS	Breathing	Low Iq	Fault Detect	Temp-Det Roll	Package/Pin	Special Features
IS31FL3190	1	42	I2C 400kHz	5.5	4	8	5-steps					1				UTQFN-9	
IS31FL3193	3	42	I2C 400kHz	5.5	3.8	8	5-steps					1				DFN-10	
IS31FL3194	3	40	I2C 400kHz	5.5	2	for Autodim	2			•		3				WLCSP-8	
IS31FL3293	3	20	I2C 1MHz	5.5	0.2, 0.4	12	6			•		1	•			UTQFN-9	Improved IS31FL3193, SDB pin
IS31FL3198	3	80	3-PWMs	6.6	-	-	8-steps									QFN-16	Charge Pump (3.3V)
IS31FL3198A	3	80	3-PWMs	6.6	-	-	8-steps									QFN-16	Better Rise/Fall time <1us
IS31FL3195	4	20	I2C 400kHz	5.5	2	for Autodim	2			•		3				WLCSP-16, QFN-16	Charge Pump (2.7-5.5V)
IS31FL3197	4	12	I2C 400kHz	3.7	2	8	2					3				WLCSP-16, QFN-16	Charge Pump (2.0-3.7V)
IS31FL3294	4	20	I2C 1MHz	5.5	23, Adj	8,12	6			•		3	•			UTQFN-12	
IS31FL3196A	6	40	I2C 400kHz	5.5	25	8	3					1				QFN-20	Audio Sync
IS31FL3296	6	40	I2C 1MHz	5.5	23, Adj	8,12	6			•		3	•			QFN-20, UTQFN-12	p-p w/ IS31FL3196A
IS31FL3199	9	40	I2C 400kHz	5.5	25	8	3					1				QFN-20	Audio Sync
IS31FL3299	9	40	I2C 1MHz	5.5	23, Adj	8+4,12	6			•		3	•			QFN-20	p-p w/ IS31FL3199
IS31FL3094/6/9	4/6/9	40	I2C 1MHz	5.5	23, Adj	8+4,12	6			•		4	•			QFN-20	2nd Fab IS31FL3299 & p-p family
IS31FL3298A	9	20	I2C 1MHz	5.5	24, Adj	8,8+4,12	7			•		3	•	•		WLCSP-25, QFN-24	Charge Pump (2.5-5.5V)
IS31FL3206	12	38	I2C 400kHz	5.5	24	8										QFN-20	
IS31FL3205	12	38	I2C 1MHz	5.5	62	8, 10,12,16	8		•	•	•			•	•	QFN-20	
IS31FL3242	12	48	I2C 1MHz	5.5	64	8,12	8						•	•		QFN-20	p-p w/ IS31FL3752 (2x12)
IS31FL3252	12	25	I2C 1MHz	5.5	128	8,10+4,12,16	8, 3-Groups		•		•		•	•		QFN-20	Improved LP5012 ~p-p
IS31FL3292	12	40	I2C 1MHz	5.5	23	8+4,12	6					4	•			QFN-20	p-p with IS31FL3094/6/9
IS31FL3216A	16	33.6	I2C 400kHz	5.5	26	8						8				QFN-28	Audio Sync & GPIO Modes
IS31FL3018	18	27.5	I2C 1MHz	5.5	32	8,10+4,12,16	8, 3-Groups		•		•		•	•		QFN-28	Improved LP5018 ~p-p
IS31FL3218	18	38	I2C 400kHz	5.5	3	8										QFN-24, SOP-24	
IS3xFL3207	18	38	I2C 1MHz	5.5	62	8,10,12,16	8		•	•	•	•		•	•	WFQFN-28	p-p w/ IS31FL3208A
IS31FL3208A	18	38	I2C 400kHz	5.5	23	8										QFN-28	p-p w/ IS3xFL3207
IS3xFL3209	18	76	I2C 400kHz	5.5	23	8	-		•							WFQFN-28, eTSSOP-28	1/24 DC Current Adj
IS3xFL3238	18	76	I2C 1MHz	5.5	62	8,10,12,16	8		•	•	•	•		•		eTSSOP-28	
IS31FL3258	18	27.5	I2C 1MHz	5.5	32	8,10+4,12,16	8, 3-Groups		•		•		•	•		QFN-28	p-p w/ IS31FL3208A
IS31FL3254	24	25.5	I2C 1MHz	5.5	128	8,10,12,14	8, 3-Groups		•		•		•			QFN-32	Improved LP5024 ~p-p
IS31FL3239	24	38	I2C 1MHz	5.5	62	8,10,12,16	8			•	•	•		•	•	QFN-32	
IS31FL3235A	28	38	I2C 400kHz	5.5	22	8										QFN-36	
ISx2FL3240	30	38	I2C 1MHz	5.5	62	8,10,12,16	8		•	•	•	•		•	•	WFQFN-40	
IS32FL3250	30	23	I2C 1MHz	5.5	128	8,10,10+4	8		•	•	•	•				WFQFN-40	p-p w IS3xFL3240, Group Dim
IS3xFL3236A	36	38	I2C 1MHz	5.5	22	8	-		•	•						eTQFP-48	
IS31FL3246	36	25	I2C 1MHz	5.5	128	8,10	8, 3-Groups		•							QFN-44	p-p w IS3xFL3236A
IS3xFL3246A	36	25	I2C 1MHz	5.5	128	8,10	8, 3-Groups		•	•						QFN-44, WFQFN-44	3 Group Dim, 2nd Fab for IS31FL3246
IS3xFL3237	36	38	I2C 1MHz	5.5	62	8,10,12,16	8		•	•	•	•		•	•	WFQFN-44, eTQFP-48	Feature Rich, p-p IS3xFL3236A
IS3xFL3265A/B	18	60	I2C/SPI	40	25	8	5		•	•	•	•		•	•	eTSSOP-28	4% ch-ch 6% dev-dev

Serial Shift

IS32FL3726A	16	60	Serial 30MHz	5.5	N/A	N/A	-	•								QFN-24, SSOP-24, eTSSOP-24	4% ch-ch 2% dev-dev
IS31FL3224	24	40	DSB, HSB, SPI, I2C	18	31.5	8	8, 3-Groups		•		•			•		QFN-40	
IS3xFL3268	24	51	SPI or VSB	16	62.5	8, 8+4, 8+8, 16	8, 3-Groups		•	•	•			•		WQFN-40	3% Matching
IS3xFL3248	48	33	SPI or VSB	16	62.5	8, 8+4, 8+8, 16	8, 3-Groups		•	•	•			•		eTQFP-64, QFN-64	3% Matching

Industrial Grade P/N's are IS31FLxxxx
Automotive Grade P/N's are IS32FLxxxx
ANR = Audible Noise Reduction

Dot Cor = Ability to adjust for variation in RGB binning
SS = Spread Spectrum
* = Avg Current for Max Columns

 New
If P/N is shown as IS3xFLxxxx then both Industrial and Automotive are offered.

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P/N	# of Ch	Array Size	mA/ Ch max	Avg mA/Ch when scanning	Interface	PWM Freq max (kHz)	PWM Res (bits)	Global Cur Adj (Bits)	AEC-Q100	Deghost	ANR	Dot Cor	SS	Breathing	Fault Detect	Cascade Sync	Package/ Pin	Special Features
IS32FL3105 A/B/C/D	36	18xn (n=1~2)	60	~30	LumiBus (A/B), UART (C/D)	125	8+8, 13+3 14+2, 16	6	•	•	•	•	•	•	•	•	WFQFN-32	State Machine, ASIL-B, OTP (write only) memory, Integrated CAN PHY
IS32FL3107 A/B/C/D	36	18xn (n=1~2)	60	~30	LumiBus (A/B), UART (C/D)	125	8+8, 13+3 14+2, 16	6	•	•	•	•	•	•	•	•	WFQFN-32	State Machine, ASIL-B, MTP (read/write) memory
IS32FL3257	36	18xn (n=1~2)	60	~30	CAN	125	8+8, 13+3 14+2, 16	6	•	•	•	•	•	•	•	•	WFQFN-32	ARM M0+, crossfade engine, ASIL-B
IS32FL3259	36	18xn (n=1~2)	60	~30	LIN	125	8+8, 13+3 14+2, 16	6	•	•	•	•	•	•	•	•	WFQFN-32	ARM M0+, crossfade engine, ASIL-B
IS3xFL3740	12	4x3	84	26.3	I2C 400kHz	8	10	8	•	•	•	•	•	3	•	•	eTSSOP-20, QFN-20	Hi side PWM source
IS31FL3752	24	12x2	48	24	I2C 1MHz	64	12	8	•	•	•	•	•	•	•	•	QFN-20	Low Iq
IS31FL3756	36	12x3	48	16	I2C 1MHz	64	12	8	•	•	•	•	•	•	•	•	QFN-20	Low Iq
IS3xFL3738	48	8x6	84	13.2	I2C 1MHz	8	9	8	•	•	•	•	•	3	•	•	eTSSOP-28, QFN-28	Hi side PWM source
IS31FL3713	12	4x3	50		I2C 1MHz	93.75	6+4	6	•	•	•	•	•	12	•	•	WLCSP-12	Inductive Boost, Low Iq, p-p LP5813
IS3xFL3714	42	7x6	84		I2C 1MHz		8+4	6	•	•	•	•	•	12	•	•	WLCSP-16	Inductive Boost, Low Iq
IS31FL3716	56, 50	8x7, 9x6, 10xn (n=1~5)	40	5	I2C 1MHz	175		7	•	•	•	•	•	•	•	•	QFN-20	Improved IS31FL3728
IS31FL3717	64	8xn (n=1~8) or 7x9	34.6	4.21 *	I2C 1MHz	256	8	7	•	•	•	•	•	•	•	•	SOP-24	Improved p-p IS31FL3739, Imp Deghost, No Noise
IS31FL3728	64	8x8, 5x11, 6x10, 7x9	42.8	5	I2C 400kHz	3.8	4	4	•	•	•	•	•	•	•	•	QFN-24	Audio EQ mode
IS31FL3739	64	8xn (n=1~8)	35	4.22 *	I2C 1MHz	80	8	6	•	•	•	•	•	•	•	•	SOP-24	Also has 7x9 mode
IS3xFL3746B	72	18xn (n=4~1)	29	8.33 *	SPI 12MHz	29	8	8	•	•	•	•	•	•	•	•	QFN-32	
IS31FL3751	72	9x8	20	2	I2C 1MHz	62	12	2	•	•	•	•	•	•	•	•	QFN-20	Low Iq, Crossplex, RISET
IS31FL3746A	72	18xn (n=1~4)	29	8.33 *	I2C 1MHz	29	8	8	•	•	•	•	•	•	•	•	QFN-32	
IS31FL3736B	96	12x8	42	3.29	I2C 1MHz	26.7	8	8	•	•	•	•	•	3	•	•	QFN-40	Hi side PWM source
IS31FL3748	96	24xn (n=1~4)	39.6	9.67 *	I2C/SPI/ Serial Shift	32	8-I2C/SPI, 7-Serial	8+3	•	•	•	•	•	•	•	•	QFN-48	28V, Fault reports on I2C & SPI only, Temp Rolloff
IS3xFL3749	96	24xn (n=4~1)	60	14.3 *	SPI or VSB 33MHz	125	16	8	•	•	•	•	•	•	•	•	QFN-48, eTQFP-48	16V, Internal LDO, Temp Rolloff, Automotive LCD Backlight, Inst Clusters
IS31FL3766	108	18xn (n=1~6)	40	6.4 *	I2C/SPI	288	12, 8+4, 6+2	8	•	•	•	•	•	•	•	•	QFN-32	Low Iq, Improved Deghost
IS31FL3729	128	16xn (n=1~8) or 15x9	35	4.22 *	I2C 1MHz	55	8	6	•	•	•	•	•	•	•	•	eTQFP-32, QFN-32	
IS31FL3719	128	16xn (n=1~8) or 15x9	34.6	4.21 *	I2C 1MHz	256	8x8: 8 8x8: 1	7	•	•	•	•	•	•	•	•	eTQFP-32, QFN-32	Improved p-p IS31FL3729, Imp Deghost, No Noise
IS31FL3731	144	16x9	34	3.4	I2C 400kHz	8.26	8		•	•	•	•	•	8	•	•	QFN-28, SSOP-28	Audio Sync, Auto Dim
IS31FL3732A	144	16x9	34	3.4	I2C 1MHz	21.2	8	8	•	•	•	•	•	8	•	•	QFN-40	Audio Sync, Auto Dim
IS31FL3737B	144	12x12	42	3.29	I2C 1MHz	26.7	8	8	•	•	•	•	•	3	•	•	QFN-40	Imp Breathing & Deghost
IS31FL3745	144	18xn (n=1~8)	34	4.21 *	I2C 1MHz	29	8	8	•	•	•	•	•	•	•	•	WLCSP-36	Small Package
IS31FL3747	144	12xn (n=1~12) Dual for 24x24	47.8	3.55 *	SPI, VSB	53	12	8	•	•	•	•	•	•	•	•	QFN-40, WLCSP-36	30MHz VSB, Game Keybd, MiniLED, Temp Rolloff, 576
IS31FL3742A	180	30x6 (n=1~6)	38	6.4	I2C 1MHz	29	8	8	•	•	•	•	•	•	•	•	QFN-48	Gaming High Current/Dot
IS31FL3723	192	16x12	42	3.29	I2C 1MHz	26.7	8	8	•	•	•	•	•	3	•	•	QFN-48	Improved p-p IS31FL3733B
IS31FL3733B	192	16x12	42	3.29	I2C 1MHz	26.7	8	8	•	•	•	•	•	3	•	•	eTQFP-48, QFN-48	Imp Breathing & Deghost
IS31FL3743A	198	18xn (n=1~11)	34	3.03 *	I2C 1MHz	24	8	8	•	•	•	•	•	•	•	•	UQFN-40	Temp Rolloff
IS31FL3743B	198	18xn (n=1~11)	34	3.03 *	SPI 12MHz	24	8	8	•	•	•	•	•	•	•	•	UQFN-40	Temp Rolloff
IS31FL3763	216	18xn (n=1~12)	40	3.2 *	I2C/SPI	288	6+2.7+7, 12+4	3x8	•	•	•	•	•	•	•	•	QFN-40	Low Iq, Improved Deghost
IS32FL3776	216	36x6 (n=6~1)	60	10 *	LumiBus, UART/SPI	250, 500, ...	6+2.7+7, 12+4	6	•	•	•	•	•	•	•	•	WFQFN-60	Q2-26 External P-MOS high side, 10-bit ADC, DCFB (FBO)
IS31FL3762	288	24xn (n=1~12)	30	2.2 *	I2C/SPI	260	6+2	8	•	•	•	•	•	•	•	•	QFN-78	Mini-LED B-Lite, RGB K-Bd
IS31FL3741A	351	39x9 (n=1~9)	38	3.2	I2C 1MHz	29	8	8	•	•	•	•	•	•	•	•	QFN-60	Gaming Keyboard Driver
IS31FL3758	360	40x9, 44ch	60	6.3 *	I2C/SPI	137	8, 6+2	8	•	•	•	•	•	•	•	•	QFN-60	External High Side FETs
IS3xFL3761	396	33xn (n=12~2)	30	2.5 *	I2C-1MHz, SPI-12MHz	312	12	8	•	•	•	•	•	•	•	•	WFQFN-60	Low Iq, Improved Deghost, Automotive LCD Backlight, Instrument Cluster

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New
Soon to be released

If P/N is shown as IS3xFLxxxx then both Industrial and Automotive are offered.

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