



## Broadcast Media Applications

ICs for TV-, CATV-, SAT-, VTR-Tuner

Mixer ICs

Type	Package	Function	Key Features
U2300B-FL	SO-28	TV-tuner IC with mixer, oscillator, SAWF-driver	3 separate oscillators and mixers
U2309B-FL U2309B-FS	SO-28	TV-tuner IC with mixer, oscillator, SAWF-driver	3 separate oscillators and mixers, 9 V supply voltage
U2320B-FL	SO-20	TV-tuner IC with mixer, oscillator, SAWF-driver	2 separate oscillators and mixers
U2321B-FP	SO-16	TV-tuner IC with mixer and oscillator	Small package, 2 separate oscillators and mixers
U2329B-FL	SO-20	TV-tuner IC with mixer, oscillator, SAWF-driver	2 separate oscillators and mixers, 9 V supply voltage
U2323B-FP		TV-tuner IC with mixer and oscillator	2 separate oscillators and mixers, 9 V supply voltage



## Broadcast Media Applications

### PLL ICs

Type	Package	Function	Key Features
U6204B-FP	SO-20	PLL tuning circuit with 1.3 GHz prescaler	With I <sup>2</sup> C bus, 7 switching outputs
U6205B-FP	SO-14	PLL tuning circuit with 1.3 GHz prescaler	I <sup>2</sup> C bus, small package, 3 switching outputs
U6206B-FP	SO-16	PLL tuning circuit with 1.3 GHz prescaler	I <sup>2</sup> C bus, small package, 5 switching outputs
U6207B-FP	SO-14	PLL tuning circuit with 1.3 GHz prescaler	I <sup>2</sup> C bus, small package, 3 switching outputs Input frequency 220 MHz when prescaler is switched off
U6225B-FP	SO-16	2.9 GHz PLL for SAT-TV receiver	5 open collector switching outputs with I <sup>2</sup> C bus
U6235B-FP	SO-16	3.5 GHz PLL for SAT-TV receiver	5 open collector switching outputs with I <sup>2</sup> C bus
U6359B-FL	SO-20	PLL tuning circuit with 1.0 GHz prescaler	3 wire bus, 4 switching outputs, clock output
U6223B-FP	SO-16	2.9 GHz PLL for SAT-TV receiver	
U6224B	SO-16	1.3 GHz PLL for SAT-TV receiver	
<a href="#">U810BS</a> <a href="#">U811BS</a> <a href="#">U812BS</a>	TO-50	1.2 GHz PLL for CATV and SAT-TV Tuners	High input sensitivity Low power consumption Low output impedance
<a href="#">U813BS</a>	8-pin DIP SO-8 SIP-6	1.1 GHz Prescaler for PLL's in TV, CATV and SAT TV Tuners	High input sensitivity Low power consumption Low output impedance
<a href="#">U816BS-SP</a>	SIP-6	1.1 GHz Prescaler for TV Tuners	High input sensitivity Extrem low current consumption (typ. 17 mA)



## Broadcast Media Applications

### High Speed Frequency Prescalers

Type	Package	Function	Key Features
<a href="#">U832BS-FP</a>	SO-8	3.0 GHz prescaler	Scaling factor /2, low current consumption
<a href="#">U834BS-FP</a>	SO-8	3.0 GHz prescaler	Scaling factor /4, low current consumption
<a href="#">U833BS</a> <a href="#">U833BSE-FP</a> <a href="#">U833BSE-SP</a>	8-pin DIP SO-8 SIP-6	1.3 GHz prescaler	3 Scaling factors /64, /128, /256 programmable at pin 5
<a href="#">U847BST</a>	8-pin DIP	1.3-GHz prescaler for CATV Tuners	
<a href="#">U893BSE</a> <a href="#">U893BSE-FP</a> <a href="#">U893BSE-SP</a>	8-pin DIP SO-8 SIP-8	1.3 GHz programmable prescaler	3 Scaling factors /64, /128, /256 programmable, low current consumption



## Broadcast Media Applications

### TV/VTR

#### Video & Sound IF ICs

Type	Package	Function	Key Features
U2860B	14-pin DIP	Double FM demodulator	Alignment-free, 5 V supply
<a href="#">TBA120T</a> <a href="#">TBA120U</a>	14-pin DIP	Sound IF (SIF)	FM IF demodulator
<a href="#">TDA4439</a>	18-pin DIP	Video IF (VIF)	Multistandard with AFC
<a href="#">TDA4445B</a>	16-pin DIP	Sound IF (SIF)	Quasi parallel sound processor + AM demod.
<a href="#">TDA4452</a>	18-pin DIP	Video IF (VIF)	Multistandard with video switch
<a href="#">TDA4453</a>	16-pin DIP	Video IF (VIF)	Multistandard
<a href="#">TDA4454</a>	16-pin DIP	Video IF (VIF)	Multi (D2Mac), PLL detection
<a href="#">TDA4455</a>	18-pin DIP	Video IF (VIF)	Multi (D2Mac), PLL detection, two IF inputs
<a href="#">TDA4480</a>	20-pin DIP	Sound IF (SIF)	Multistandard SIF processor (FM+AM), stereo
<a href="#">TDA4481</a>	20-pin DIP	Sound IF (SIF)	Multistandard SIF processor (FM+AM), mono
<a href="#">TDA4482</a>	18-pin DIP	Sound IF (SIF)	Single standard SIF processor (FM), stereo
<a href="#">TDA4483</a>	14-pin DIP	Sound IF (SIF)	QPS processor (FM/NICAM) + AM demod.
<a href="#">TDA4484</a>	14-pin DIP	Sound IF (SIF)	QPS processor (FM/NICAM) + AM demodulator , 2 IF inputs
<a href="#">U828B</a> <a href="#">U829B</a>	14-pin DIP	Sound IF (SIF)	FM IF demodulator
<a href="#">U2840B/41B</a>	16-pin DIP	Sound IF (SIF)	FM IF amplifier, audio switch, volume control



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Type	Package	Function	Key Features
U4454B	16-pin DIP	Sound IF (SIF)	Quasi parallel sound processor + AM demodulator, PLL detection
U4459B	16-pin DIP	IF mixer	External gain control, 12 V
U4460B *)	28-pin SDIP	Video IF	FPLL 5 V, AFC
U4462B *)	28-pin SDIP	Video IF and mono demodulator	Single standard
U4490B	16-pin DIP	Sound IF (SIF)	SAT sound IF circuit and mixer
TDA4462	28-pin SDIP	1-Chip IF processor	Single standard, FPLL detection, AFC, Mono FM demod., SCART switches, volume control, 5 V supply
TDA4470	28-pin SDIP	Video/Sound IF combination	Multistandard, FPLL detection 5 V supply, AFC
TDA4471 *)	30-pin SDIP	Video/Sound IF combination	Multistandard, FPLL detection 5 V supply, AFC
<a href="#">TDA4472</a>	28-pin SDIP	Video/Sound IF combination	Single standard, FPLL detection 5 V supply, AFC
TDA4474 *)	30-pin SDIP	Video/Sound IF combination	Multistandard, FPLL detection 5 V supply, AFC

\*) under development



## Broadcast Media Applications

### Chroma-Video ICs

Type	Package	Function	Key Features
<a href="#">TDA3505</a>	28-pin DIP	Chroma-video	
<a href="#">TDA4565</a>	18-pin DIP	Chroma-video	Color transient improvement (CTI), Y-delay
U3660M U3661M	16-pin DIP	Chroma-video	Baseband delay line (with U 4650 B)
U4930B *)	SDIP-52	TV base band PAL/NTSC	I <sup>2</sup> C-bus controlled, multiple video switches
U4935B *)	16-pin DIP	SECAM decoder	Complete alignment free, add-on SECAM for U 4930 B

\*) under development

### Pulse Processing ICs

Type	Package	Function	Key Features
<a href="#">TEA2029CV</a>	28-pin DIP	Pulse processing	Timing processor (line, frame) + SMPS control

### Deflection ICs

Type	Package	Function	Key Features
<a href="#">TDA4173</a>	7-pin HW	Deflection	Vertical deflection output amplifier, 2,5 A
<a href="#">TEA8172</a>	7-pin HW	Vertical deflection	Vertical deflection output amplifier, 2 A



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### E/W-Correction ICs

Type	Package	Function	Key Features
<a href="#">TDA4950</a>	8-pin DIP	E/W-correction	East-west correction for square tubes
<a href="#">TDA4951</a>	8-pin DIP	E/W-correction	East-west correction for square tubes
<a href="#">TDA8145</a>	8-pin DIP	E/W-correction	East-west correction for square tubes



## Broadcast Media Applications

### Audio

#### Receiver ICs

Type	Package	Function	Key Features
U4062B	18-pin DIP	FM-Frontend	Completely integrated FM frontend Oscillator with low phase noise and excellent frequency stability IF preamplifier with dB linear gain control
<a href="#">U4065B-FL</a>	SO-24	FM-Frontend	High performance FM frontend without RF-preamplifier unique interference sensor new AGC concept with 3 loops
<a href="#">TDA1072A</a>	16-pin DIP	AM receiver circuit	Controlled RF preamplifier IF amplifier with gain control Audio preamplifier
<a href="#">U4240B</a> <a href="#">U4240B-FS</a>	18-pin DIP SSO-20	AM receiver circuit	Controlled RF preamplifier IF output for stereo demodulation and stop signal generation Audio preamplifier
<a href="#">TDA1083</a>	16-pin DIP	AM/FM and audio amplifier	0.7 W AF output power High AM sensitivity FM/IF amplifier
U2510B-M	SDIP-28	All band AM/FM receiver	1 W AF output power DC mode control for AM, FM, and Tape Superior strong signal behaviour
U2514B	SO-24	AM/FM receiver with stereo decoder (under development)	LO-Buffer for PLL applications MPX output Stop signal generation for AM/FM





## Broadcast Media Applications

### PLL Ics

Type	Package	Function	Key Features
U4280BM U4280BM-FL	20-pin DIP	AM/FM PLL	Reference oscillator up to 15 MHz High signal/noise ratio Controlled by I <sup>2</sup> C-bus
<a href="#">U4283BM</a> <a href="#">U4283BM-FS</a>	20-pin DIP SSO-20	AM/FM PLL	Reference oscillator up to 15 MHz High signal/noise ratio 4 switching outputs Integrated loop-transistors
<a href="#">U4286BM-FP</a>	SO-16	AM/FM PLL	Reference oscillator up to 15 MHz High signal/noise ratio 2 switching outputs Integrated loop-transistors
<a href="#">U4287BM</a>	SSO-20	AM/FM PLL	Reference oscillator up to 15 MHz High signal/noise ratio 3 switching outputs Integrated loop-transistors
U4285BM-FP U4285BM-FL	SO-20	AM/FM PLL (for RDS application)	High signal/noise ratio 4 switching outputs Integrated push-pull stage Fast response time (for RDS)
U4288BM		AM/FM high speed PLL	Recommended for RDS, (TCM), Audis high signal/noise ratio controlled by 3 wire-bus intergrated push-pull stage extrem fast respanse time (<50 μs)



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Type	Package	Function	Key Features
<a href="#">U4284BM</a>	SO-20	AM/FM PLL (for RDS application)	High signal/noise ratio 4 switching outputs Integrated loop-transistors Fast response time High signal/noise ratio 4 switching outputs Integrated loop-transistors Fast response time

### IF ICs

Type	Package	Function	Key Features
<a href="#">TDA4210</a>	18-pin DIP	FM-IF limiter amplifier and detector	7 stage limiter amplifier Multi-path signal detector
<a href="#">U4270B</a> <a href="#">U4270B-FS</a>	18-pin DIP SSO-20	FM IF limiter amplifier and detector	7 stage limiter amplifier Multi-path signal detector Adjustable stop signal threshold
<a href="#">U4275B-FL</a>	SO 20	Receiving condition analyzer and multipath noise cancellation	Detection of multipath common channel and adjacent channel interferences multipath noise cancellation multifunction control by $\mu$ C
<a href="#">U4276B-FP</a>	SO 8	Multipath noise cancellation circuit ( under development )	Multipath noise cancellation multifunction control by $\mu$ C
<a href="#">U4292B-FS</a>	SSO-44	FM-IF (software controlled DYNAS)	Significantly improved selectivity and sensitivity compared to conventional IF-systems Controllable by software



## Broadcast Media Applications

### Radio Clock Receiver ICs

Type	Package	Function	Key Features
<a href="#">U4221B-FP</a>	SO-16	Radio controlled clock receiver for 60 to 80 kHz	Low power consumption Very high sensitivity
<a href="#">U4222B</a>	SO-20 SSO-20	Time code receiver	Very low power consumption Very high sensitivity
<a href="#">U4223B-FL</a>	SO-20	Radio controlled clock receiver for 40 to 80 kHz	Extreme low power consumption Very high sensitivity Very high selectivity by using 2 crystals 4 bit ADC output
<a href="#">U4224B-FL</a>	SO-16 L	Radio controlled clock receiver for 40 to 80 kHz	Extreme low power consumption Very high sensitivity Very high selectivity by using 2 crystals
<a href="#">U4226B-FS</a>	SSO 20	Radio controlled clock receiver for 40 to 80 kHz	Extreme low power consumption Very high sensitivity Very high selectivity by using 2 crystals
<a href="#">T4225B</a>	die	Radio controlled clock receiver for 40 to 80 kHz	Extreme low power consumption Very high sensitivity Very high selectivity by using 2 crystals