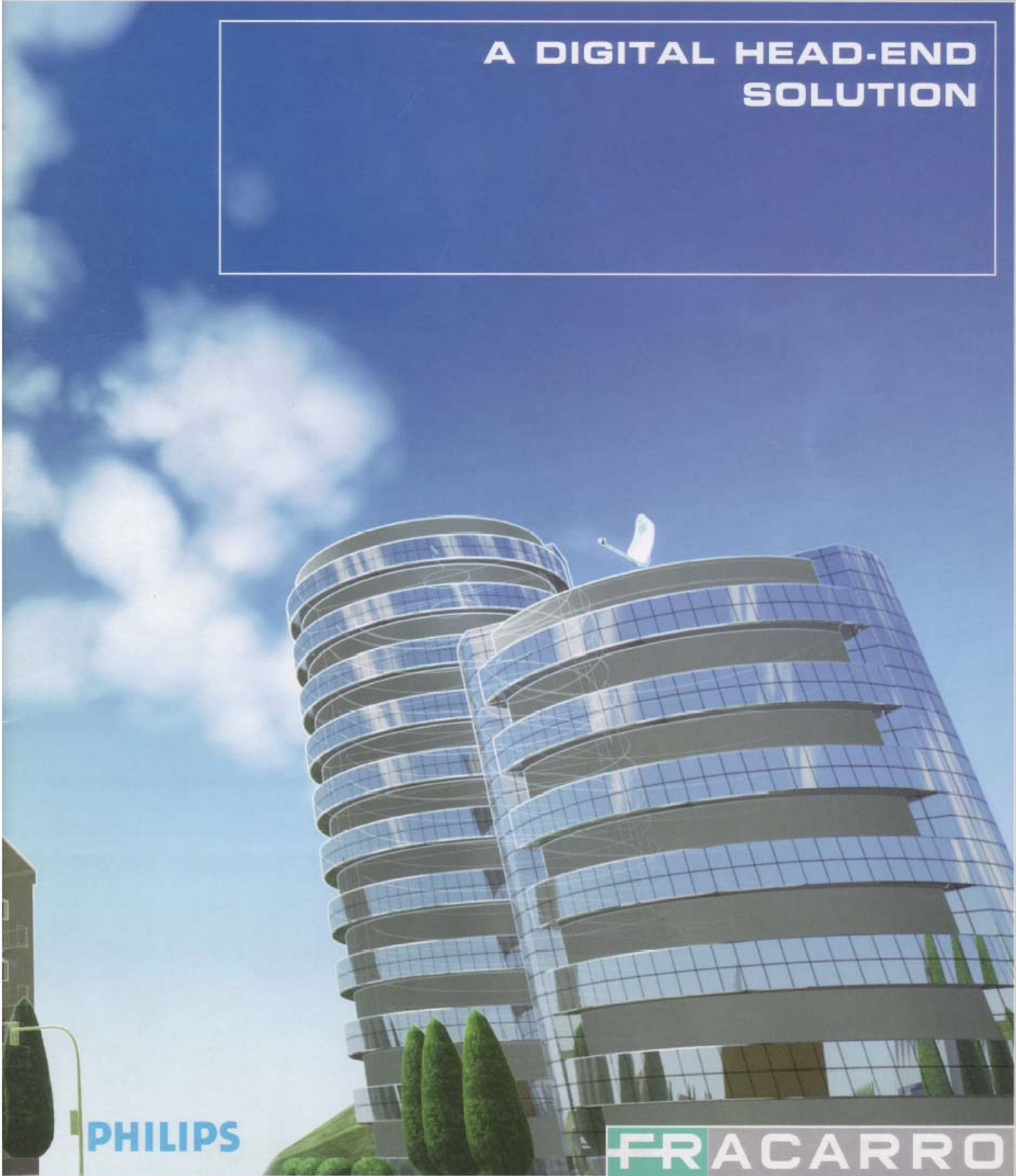


SEMI - MODULAR Head-ends
for MATV and SMATV.

K SERIES

**A DIGITAL HEAD-END
SOLUTION**

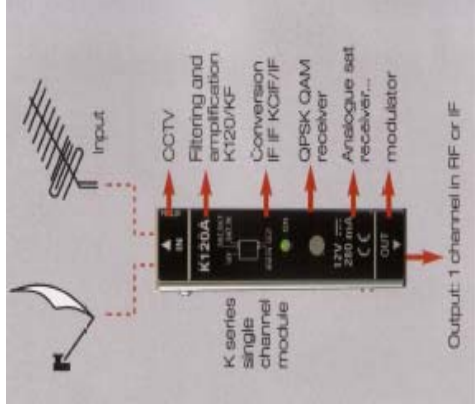
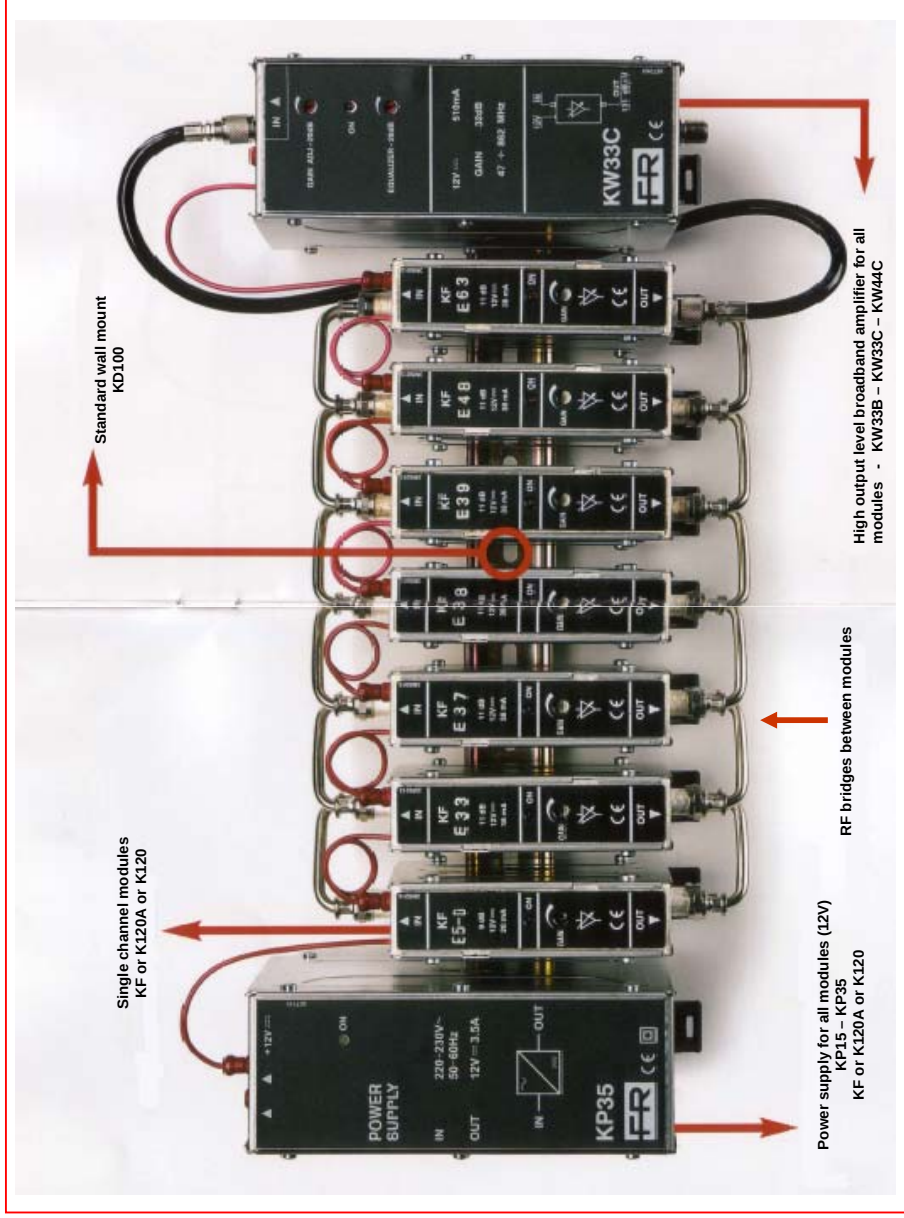


PHILIPS

FRACARRO

Philips SMATV is now Fracarro.

shaping the future



K series is designed to process digital and analogue signals in a SMATV system.
K series is designed to be used in the following SMATV systems:

- Multi dwelling units
- Estates
- Hotels

K SERIES : KEY POINTS

- Future proof solution
- Compliant with DIGITAL programs (DTT receiver)
- Ability to manage complex channel plans
- Flexible and time saving solution
- The KTP LCD programmer allows modules to be easily adjusted
- The modules can be fitted easily on the DIN BAR
- Reduce cost
- Uses standard din bar as wall mount rail
- Uses one broadband amplifier for all the modules (with KF range)



Single channel amplifier

Item code	Gain dB	Selectivity				Max output level dBuV	Noise figure dB	Channels	Power consumption max mA
		PAn-2	PAn-1	PVn+2	PVn+2				
KF/...	9 (45)	35	5	9	35	93	7	E2 ÷ E4	20 @ 12V
	9 (45)	-	-	-	-	90	4	FM	20 @ 12V
	9 (45)	45	5	10	42	95	9	E5 ÷ E12	20 @ 12V
	7 (30)	40	5	10	40	95	10	S11 ÷ S20	20 @ 12V
	11 (35)	42	10	16	46	95	10	S21 ÷ S38	38 @ 12V
	11 (35)	42	10	16	46	95	10	E21 ÷ E69	38 @ 12V

Item code	Gain dB	Selectivity				Max output level dBuV	Noise figure dB	Channels	Power consumption max mA
		PAn-2	PAn-1	PVn+2	PVn+2				
K120/...	45 (40)	35	5	9	35	121	8	E2 ÷ E4	180 @ 12V
	40 (40)	-	-	-	-	112	5	FM	200 @ 12V
	45 (40)	40	5	10	44	120	9	E5 ÷ E12	2180 @ 12V
	45 (30)	35	5	10	40	120	10	S11 ÷ S20	200 @ 12V
	45 (30)	42	10	16	46	120	9	S21 ÷ S69	200 @ 12V

Item code	Max input level dBuV	Selectivity standard B7G Italia (1)		Output level adjustment dBuV	AGC dynamics (max) dB	Noise figure dB	Channels	Power consumption max mA
		PAn-2	PVn+1					
K120A/...	90	5	9	110 ÷ 120	25	8	E2 ÷ E4	210 @ 12V
	95	5	10	110 ÷ 120	30	9	E5 ÷ E12	210 @ 12V
	95	12	18	110 ÷ 120	30	10	E21 ÷ E69	210 @ 12V

Amplifiers

Item code	Frequency range MHz	Gain (adjustment) dB	Max output level dBuV	Typ. Noise figure dB	Power consumption max mA
KW33B	47 ÷ 862	34 (20)	116	8	300 @ 12V
KW33C	47 ÷ 862	32 (20)	121	9	510 @ 12V
KW44C	47 ÷ 862	44 (20)	121	8	550 @ 12V
KW35E	5 ÷ 30 47 ÷ 862	35 (20)	125	9	830 @ 12V

Power supplies

Item code	Mains Vac	Power consumption W	Output voltage V	Max current A	Dimensions mm
KP15	187 ÷ 264 Vac 50-60 Hz	23	12	1,5	40 x 130 x 86
KP35	187 ÷ 264 Vac 50-60 Hz	55	12	3,5	63 x 165 x 107
KP60	187 ÷ 264 Vac 50-60 Hz	92	12	6,0	63 x 165 x 133

KDRTT Digital terrestrial transmodulator

Item code	Input DTT mode	Decoding	Audio	Output frequency	Output level	Output standard	Modulation	Current Consumption
KDRTT VH-CD	2K 8K	MPEG2	Mono	175-300 MHz	103dBV	Pal I/B/D/K Pal	DSB	720 mA
KDRTT UH-CD	2K 8K	MPEG2	Mono	470-860 MHz	105dBV	I/G/D/K	DSB	720 MA

KCP digital channel processor

Item code	Input frequency	Input signal	Processing	Output frequency	Output Level	Modulation	Power consumption
KCP	174-230 MHz & 470-862 MHz	Digital or Analogue	Double IF conversion	118-862 MHz	85 dBV	VSB	430 mA

KTLC headend remote control

Item code	Input GSM frequency	Output Protocol	Output Connector	Control of the KTLC	Microprocessor and Memory	Operating System	Power consumption
KTLC	900/1800 MHz	RS232	6 x RJ45 connectors to plug up to 12 devices	Interactive menu built-in	ARM7 Ram : 32 MB Flash memory : 8 MB	Linux	950 mA

KDTS QAM transmodulator

Item code	Input frequency	Input Symbol Rate	Output Frequency	Output Standard	Output level	Modulation	Power Consumption
KDTS/VL-C2	950-2150 MHz	1 Mbaud to 6.9 Mbaud	246-446 MHz	QAM 16 to QAM 128 according to input standard	90 dBV	VSB	550 mA

KCMX modulator

Item code	Standard	Audio input	Video input	Output frequency MHz	Output Channels	Output level dBuV	C/N channel N +/- 2 dB	Power Consumption max mA
KCMV	PAL B/G mono	500 mVrms/10k	1Vpp/75ohm	174 ÷ 382	E5 ÷ S30	90	66	350 @ 12V
KCMV/S	PAL B/G stereo	500 mVrms/10k	1Vpp/75ohm	174 ÷ 382	E5 ÷ S30	90	66	450 @ 12V
KCMV/M	Multistandard N H I D K L	500 mVrms/10k	1Vpp/75ohm	174 ÷ 382	E5 ÷ S30	90	66	350 @ 12V
KCMU	PAL B/G mono	500 mVrms/10k	1Vpp/75ohm	470 ÷ 862	E21 ÷ E69	90	65	330 @ 12V
KCMU/S	PAL B/G stereo	500 mVrms/10k	1Vpp/75ohm	470 ÷ 862	E21 ÷ E69	90	65	440 @ 12V
KCMU/M	Multistandard N H I D K L	500 mVrms/10k	1Vpp/75ohm	470 ÷ 862	E21 ÷ E69	90	65	330 @ 12V

KIF single IF channel convertor

Item code	Input frequency MHz	Output frequency MHz	Input level dBuV	Output level dBuV	Power Consumption max mA
KIF	950 ÷ 2150	950 ÷ 2150	47 ÷ 77	80 ÷ 95	280 @ 12V

KX125 IF amplifier

Item code	Input frequency MHz	Gain (adj) dB		Max output level dBuV	Typ. Noise figure dB	Power Consumption max mA
		950 MHz	2150 MHz			
KX125	950 ÷ 2150	38 (20)	44 (20)	125	6	310 @ 12V
	47 ÷ 862	-1		-	-	

Programming terminal

KTP	Equipped with a liquid crystal display comprising two lines of 16 characters and four keys. Allows the programming of all the parameters of the K series modules.
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