

LINE EXTENDER-/ DISTRIBUTION-AMPLIFIER LHD (R) GA ECO CLASSIC-LINE

- || 1.2 GHz DS-bandwidth, modular return path up to 204 MHz
- || **Gallium Arsenide technology (GaAs)**
- || Prepared for network monitoring
- || Interruption-free electronic adjustment, basic settings without additional accessories
- || 7-Segment display, simply to adjust by keypad
- || DOCSIS 3.1 compliant
- || AGC/ALSC module available
- || With **FOSTRA-F**: IDS 0 / 6 / 45 dB switchable at the return (option)
- || 2 -Outputs, IN/OUT connectors in vertical or horizontal position
- || 10 A Remote current feed through, surge protection 6kV
- || Compact alu die-cast housing acc. IP 67
- || Return path can be switched off
- || **ECO-version with 30 % reduction of power consumption**



|| FOSTRA-F FSK-RX



Type		LHD 43 GA ECO	LHD 43 R GA ECO
Item No.		57004367 - LHD 43 GA ECO(ortsgespeist) 57004420 - LHD 43-1 GA ECO (Line-Out)	5700... - LHD 43 R GA ECO (remote power) 57004447 - LHD 43-1 R GA ECO (rem. Line-Out)
Final stage		1 x Power Doubler GaAs-FET	
Downstream	Frequency range	MHz 40 - 1218 (return path ampl. 204 MHz on board, diplexer modular)	
	Gain	dB 43	
	Linearity	dB ± 0.5	
	Slope	dB 0 ... 25, 1 dB step adjustment, electrical	
	0-point loss	dB ± 0.5 at 1218 MHz, switchable to 1006 MHz	
	Interstage slope	dB 0...15, electrical adjustment	
	Attenuation	dB 0 ... 20, 1 dB step adjustment, electrical	
	Interstage attn., slot UPP1	dB for JXP-PAD's	
	Cablesimulation	dB for JXP-PAD's	
	Testpoint input	dB -20 ± 1.5 dB, F-connector, internal	
	Testpoint output	dB -20 ± 0.75 dB, F-connector, internal	
	Return loss In / Out	dB 20dB @ 40MHz -1.5 dB/Octave	
	Noise	dB typ. 7 dB	
	Output level CENELEC*1	dBµV 111 / 113	
Output level digital*2	dBµV 104		
Upstream	Frequency range	MHz 5-65/85/204 (configuration with modular diplexer)	
	Gain	dB 28	
	Linearity	dB ± 0.5	
	Slope (Output)	dB 0 ... 16, 1 dB step adjustment, electrical	
	Attenuator (Output)	dB 0 ... 30, 1 dB step adjustment, electrical	
	Input slot UPP2	dB for additional low pass filter LPF x-xx or JXP-PAD's	
	Ingress Detection Switch	dB 0 / 6 / 45, switchable with FOSTRA	
	Slope frequency point	dB 85 / 204 switchable by Jumper	
	Noise	dB 6.5	
	BER @ 107 dBµV with 24 carrier QAM 256	< 1.0E-09	
Power supply	V~ 200 - 240 V local power	28 - 65 V remote power - 10 A feed through	
Power consumption	W 12.0 with active return path		
Dimensions / Weight	mm / kg 225 x 195 x 95 / 1.8		
Connector	PG 11 t		

*1 CENELEC : CTB,CSO > 60 dB, flat

*2 Digital: EN 60728-3,119 CH, 262-1214MHz, flat

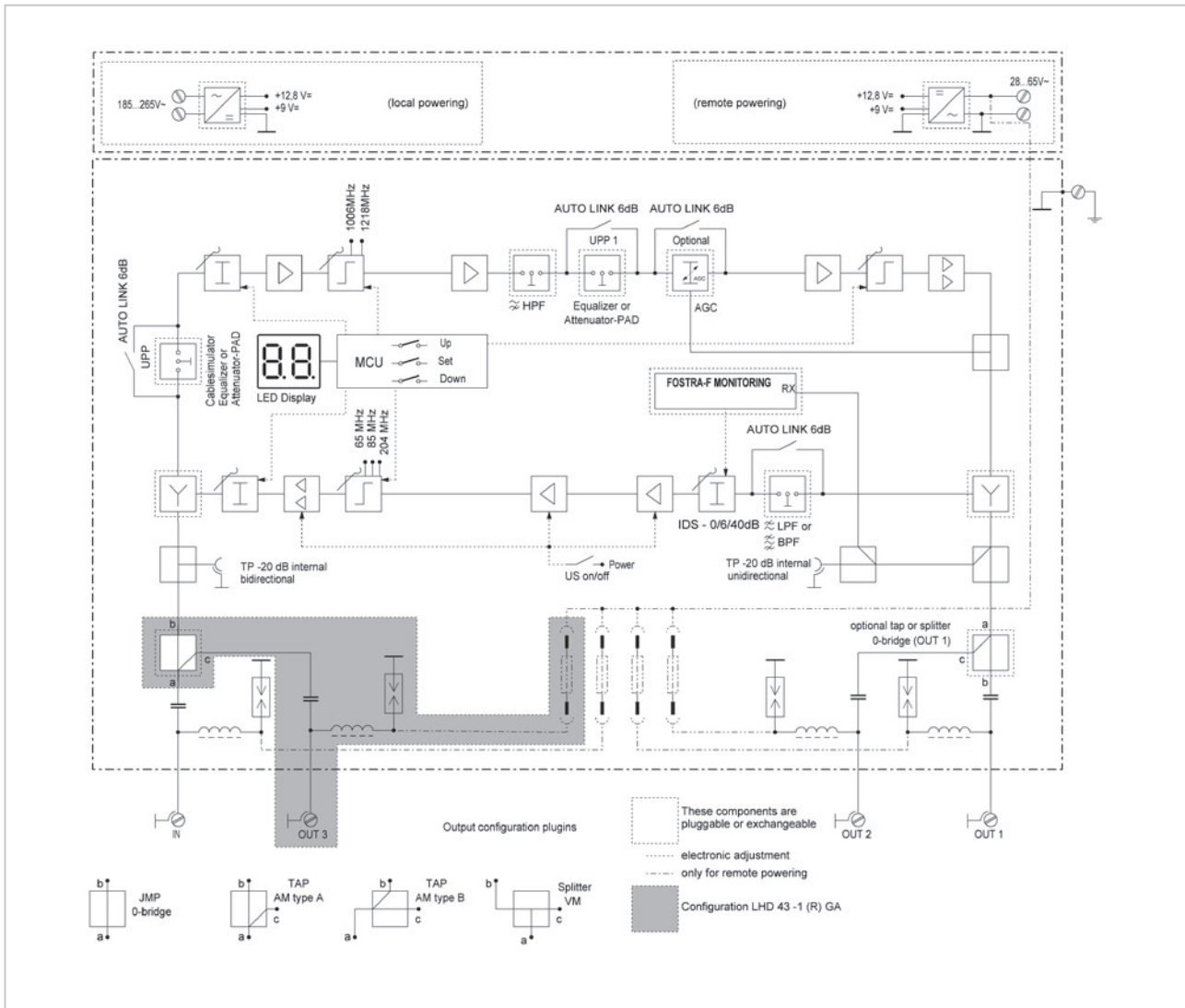
LINE EXTENDER-/ DISTRIBUTION-AMPLIFIER LHD (R) GA CLASSIC-LINE

Type		LHD 32-1 R GA	
Item No.		57003761 - LHD 32-1 R GA (remote power)	
Final stage		1 x Power Doubler GaAs-FET	
Downstream	Frequency range	MHz	40 - 1218 (return path ampl. 204 MHz on board, diplexer modular)
	Gain	dB	32
	Linearity	dB	± 0.5
	Slope	dB	0 ... 25, 1 dB step adjustment, electrical
	0-point loss	dB	± 0.5 at 1218 MHz, switchable to 1006 MHz
	Interstage slope	dB	0...15, electrical adjustment
	Attenuation	dB	0 ... 20, 1 dB step adjustment, electrical
	Interstage attn., slot UPP1	dB	for JXP-PAD's
	Cablesimulation	dB	for JXP-PAD's
	Testpoint input	dB	-20 ± 1.5 dB, F-connector, internal
	Testpoint output	dB	-20 ± 0.75 dB, F-connector, internal
	Return loss In/Out	dB	20dB @ 40MHz -1.5 dB/Octave
	Noise	dB	typ. 7
	Output level CENELEC*1	dBµV	114
Output level digital*2	dBµV	107	
Upstream	Frequency range	MHz	5-65/85/204 (configuration with modular diplexer)
	Gain	dB	28
	Linearity	dB	± 0.5
	Slope (Output)	dB	0 ... 16, 1 dB step adjustment, electrical
	Attenuator (Output)	dB	0 ... 30, 1 dB step adjustment, electrical
	Input slot UPP2	dB	for additional low pass filter LPF x-xx or JXP-PAD's
	Ingress Detection Switch	dB	0 / 6 / 45, switchable with FOISTRA
	Slope frequency point	dB	85 / 204 switchable by Jumper
	Noise	dB	6.5
	BER @ 107 dBµV with 24 carrier QAM 256		< 1.0E-09
Power supply	V~	28 - 65 V remote power - 10 A feed through	
Power consumption	W	17.0 with active return path	
Dimensions / Weight	mm / kg	225 x 195 x 95 / 1.8	
Connector		PG 11	

*1 CENELEC : CTB,CSO > 60 dB, flat

*2 Digital: EN 60728-3,119 CH, 262-1214MHz, flat

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pre-configured available:

Item No.	Type	Description
57002961	LHD 43 R GA 65	Line amplifier remote powered, gallium arsenide, 1,2GHz, 43dB, US 65/85 MHz
57002962	LHD 43 R GA 85	Line amplifier remote powered, gallium arsenide, 1,2GHz, 43dB, US 85/105 MHz
57003558	LHD 43-1 R GA 65	Line amplifier remote powered, gallium arsenide, 1,2GHz, 43dB, US 65/85 MHz, loop
57003761	LHD 32-1-R GA 85	Line amplifier remote powered, gallium arsenide, 1,2GHz, 32dB, US 85/105 MHz, loop