

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

- 1.2 GHz DS-bandwidth, modular return way 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 65, strand mountable
- Return path can be switched off



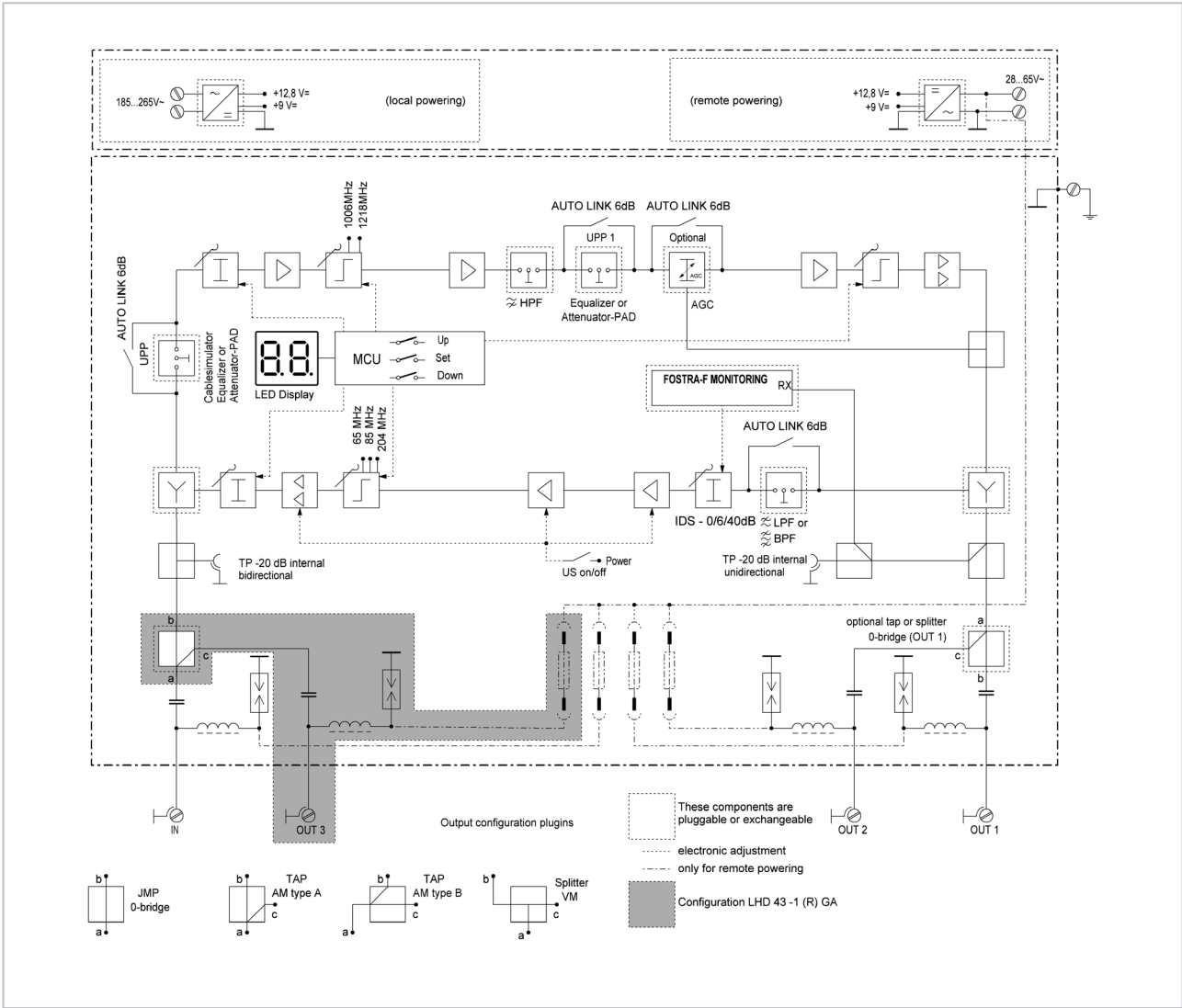
FOSTRA-F FSK-RX

Type		LHD 43 GA	LHD 43 R GA
Item No.		57002810 - LHD 43 GA (local power) 57002963 - LHD 43-1 GA (Line-OUT)	57002811 - LHD 43 R GA (remote power) 57002964 - LHD 43-1 R GA (rem., Line-OUT)
Final stage		1 x Power Doubler GaAs-FET	
Downstream	Frequency range	MHz	40 - 1218 (return way 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 Tu ≤ 40° C
	Output level 42 Ch, CENELEC, flat	dBμV	114, CTB/CSO > 60 dB
Upstream	110 Ch 256 QAM, 9 dB Slope		109 dBμV / BER < 1.0E-09
	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 Tu ≤ 40° C
BER @ 107 dBμV with 24 carrier QAM 256			< 1.0E-09
Power supply		V~	185 - 265 V local power 28 - 65 V remote power - 10 A feed through
Power consumption		W	17.0 with active return way
Dimensions / Weight		mm / kg	225 x 195 x 95 / 1.8
Connector			PG 11 thread (connectors not included)

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

Type		LHD 43 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 way 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 $\pm$ 1.5 dB, F-connector, internal
	Testpoint output	dB	-20 $\pm$ 0.75 dB, F-connector, internal
	Return loss In/Out	dB	20dB @ 40MHz -1.5 dB/Octave
	Noise	dB	typ. 7 Tu $\leq$ 40° C
	Output level 42 Ch, CENELEC, flat	dB μ V	114, CTB/CSO > 60 dB
	110 Ch 256 QAM, 9 dB Slope		109 dB μ V / BER < 1.0E-09
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 FOSTR
	Slope frequency point	dB	85 / 204 switchable by Jumper
	Noise	dB	6.5 Tu $\leq$ 40° C
	BER @ 107 dB μ V 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 way
Dimensions / Weight		mm / kg	225 x 195 x 95 / 1.8
Connector			PG 11 thread (connectors not included)

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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