

## LINE EXTENDER-/ DISTRIBUTION-AMPLIFIER LHD (R) GN PREMIUM-LINE

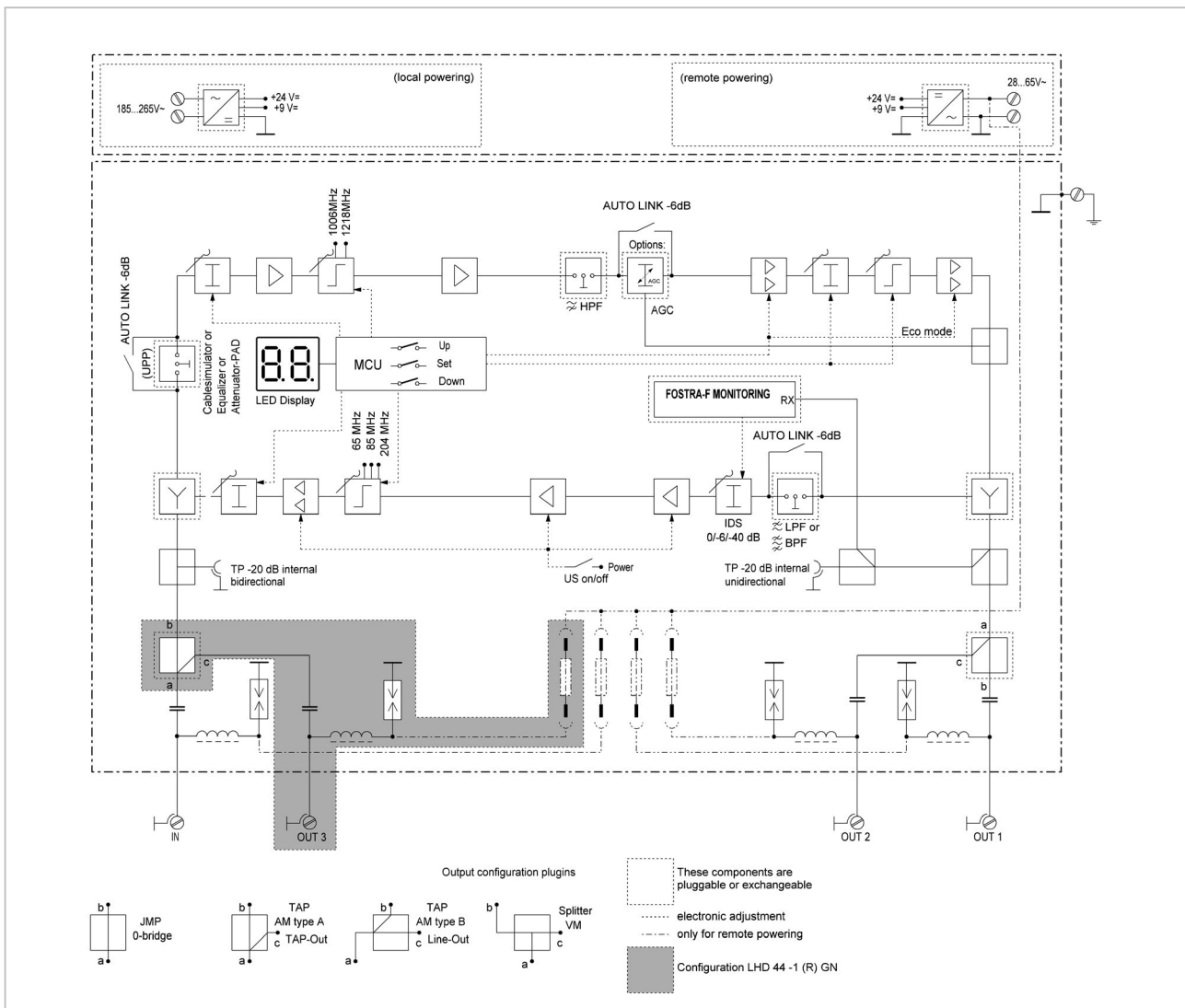
- || 1.2 GHz DS-bandwidth, modular return way up to 204 MHz
- || **Gallium Nitride technology (GaN)**
- || Prepared for network monitoring FOISTRA-F
- || Interruption-free electronic adjustment, basic settings without additional accessories
- || 7-Segment display, simply to adjust by keypad
- || DOCSIS 3.1 compliant
- || AGC/ALSC module available
- || With **FOISTRA-F**: IDS 0 / 6 / 45 dB switchable at the return
- || 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



|| FOISTRA-F FSK-RX

Type	LHD 44 GN		LHD 44 R GN	
Item No.	57002972 - LHD 44 GN (local power) 57002977 - LHD 44-1 GN (Line-OUT)		57002974 - LHD 44 R GN (remote power) 57002979 - LHD 44-1 R GN (rem., Line-OUT)	
Final stage	1 x Power Doubler GaN			
Downstream	Frequency range	MHz	40 - 1218 (return way ampl. 204 MHz on board, diplexer modular)	
	Gain	dB	44	
	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	116, CTB/CSO > 60 dB	
110 Ch 256 QAM, 9 dB Slope		112 dBμV / 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 FOISTRA	
	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	24.0 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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HFC-COMPONENTS

pre-configured available:

Item No.	Type	Description
57003162	LHD 44 R GN 65	Line amplifier remote powered, gallium nitride, 1.2GHz, 44dB, US 65/85 MHz
57003163	LHD 44 R GN 85	Line amplifier remote powered, gallium nitride, 1.2GHz, 44dB, US 85/105 MHz