

## LINE EXTENDER-/ DISTRIBUTION-AMPLIFIER NVD 1.2 GHz



II FOSTRA-F FSK-RX



### Key benefits

- II Manageable 1.2 GHz trunk and line extender for modern HFC-architectures
- II Flexible transponder solution with FSK **FOSTRA-F** microreceiver used to control and monitor with Webbrowser WebGui
- II Manageable by DELTANET
- II Solid alu die-cast housing, protection class IP 65
- II Built-in return amplifier, extended bandwidth to 204 MHz configurable via modular diplexer
- II Ingress-Control-Switch 0 / 6 / 45 dB.
- II State of the art GaAs-FET-IC pre-stages and GaAs-FET MMIC final stage for excellent linearity, low noise and high output level
- II All adjustments electronically operated by keypad and LED-display
- II Electronic interstage-slope and attenuation adjustment
- II For automatic adjustment of temperature induced level variations an AGC/ALSC module can be used
- II Complete equipment and testpoints

**Remark:** Fittings are not included in delivery

### FOSTRA-F microreceiver for amplifier

Cost-effective monitoring system for amplifier and nodes:

- II Monitoring function: Ingress detection switch 0 / 6 / 45 dB
- II Monitoring status LED indicates the operational mode
- II RX frequency 868.3 MHz / 862 MHz / tuneable
- II Identification of the amplifier type and place of installation



## LINE EXTENDER-/ DISTRIBUTION-AMPLIFIER PREMIUM-LINE NVD GN

- || 1.2 GHz DS-bandwidth, modular return path up to 204 MHz
- || **Gallium Nitride technology (GaN)**
- || Controllable line- and distribution amplifier for interactive HFC-networks
- || Two independent, active high power outputs
- || Flexible transponder solution with FSK **FOSTRA-F** microreceiver
- || Electronical level and slope adjustment
- || DOCSIS 3.1 compliant
- || Ingress-Control-Switch 0 / 6 / 45 dB on return path
- || High output level using Power-Doubler GaN technology
- || AGC module available
- || Power pass of 10 A, immunity to surge voltages 6 kV
- || Compact die-cast housing IP 65



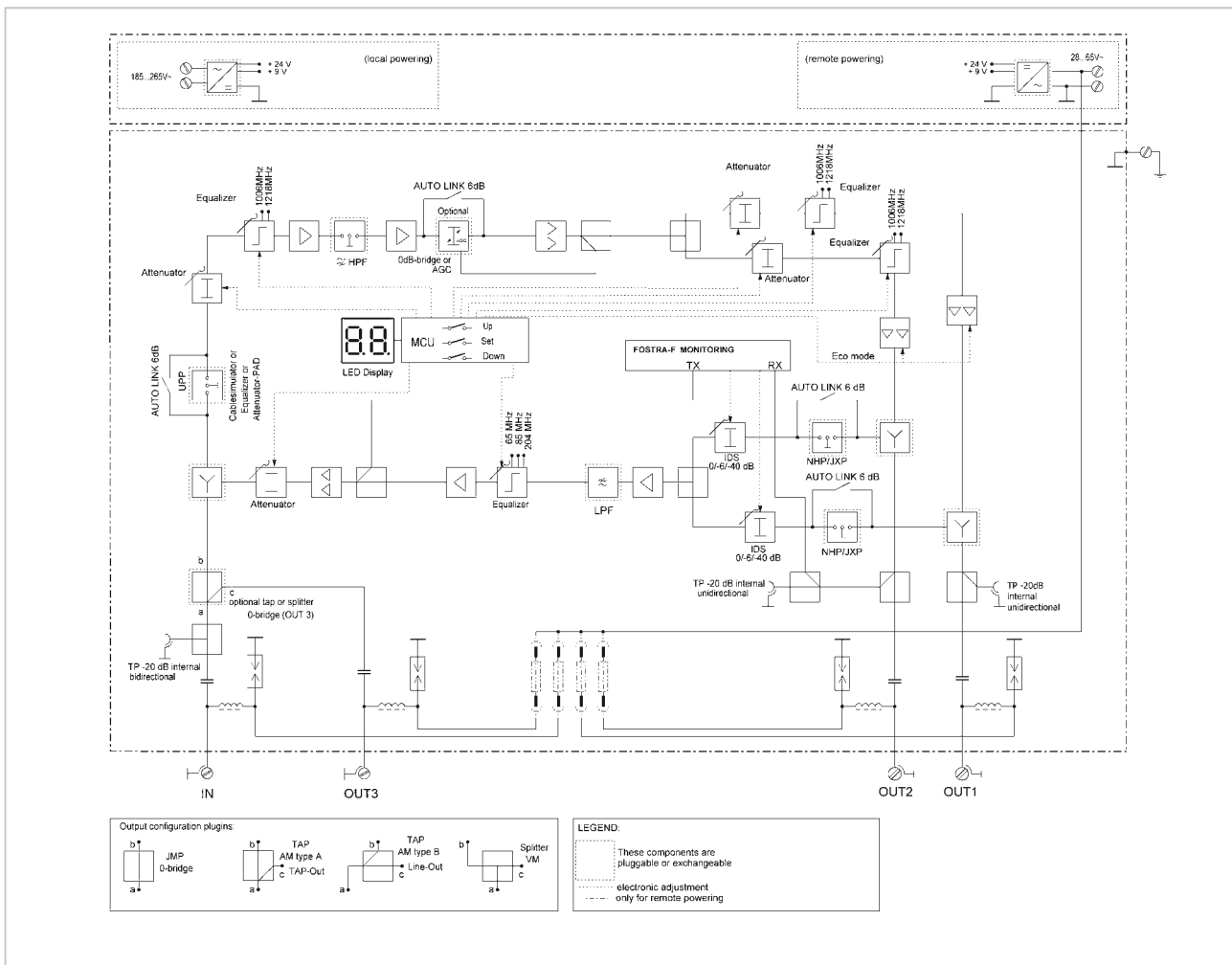
Type		NVD 9244 GN	NVD 9244 R GN	
Item No.		57003055	57003056	
Final stage		2 x Power Doubler GaN		
Downstream	Frequency range	MHz	40 - 1218	
	Gain	dB	2 x 44 ± 1	
	Noise	dB	typ. 7.0	
	Linearity	dB	± 0.5	
	Attenuation input	dB	0 ... 20	
	Slope 1006/1218 MHz	dB	0 ... 20	
	Interstage Slope + Attenuation	dB	0 ... 15	
	Output level CENELEC*1	dBµV	2 x 117	
Output level digital*2	dBµV	2 x 111		
Return loss	dB	18 dB at 40 MHz (-1.5 dB/Octave)		
Upstream	Frequency range	MHz	5 - 65 / 85 / 204 (with diplexer)	
	Gain	dB	28 ± 1	
	Noise	dB	7	
	Slope	dB	0 ... 16	
	Attenuation	dB	0 ... 30	
	Ingress detection switch		0 / 6 / 45 switchable FOSTRA	
	BER @ 107 dBµV with 24 carriers QAM 256		< 1.0E-09	
Power supply	V~	200 - 240 V local power*3	28 - 65 V remote power	
Power pass	A	10		
Hum-isolation	dB	> 60		
Power consumption		42 W (without transp.)		
Testpoint input	db	-20 (F-female, internal) bidirectional		
Testpoint output	db	-20 (F-female, internal) unidirectional		
Immunity to surge voltages	kV	6 / 6		
Connector		PG 11 (connectors excluded)		
RF-IN/OUT connection		PG 11 (connectors excluded)		
Dimensions / Weight	mm / kg	250 x 220 x 100 / 3.0		

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

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

\*3 on request

# LINE EXTENDER-/ DISTRIBUTION-AMPLIFIER PREMIUM-LINE NVD GA



HFC-COMPONENTS

pre-configured available:

Item No.	Type	Description
57003166	NVD 9244 R GN 65	Trunk amplifier remote powered, gallium nitride, 1,2GHz, 44dB, US 65 / 85 MHz
57003167	NVD 9244 R GN 85	Trunk amplifier remote powered, gallium nitride, 1.2GHz, 44dB, US 85 / 105 MHz