

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 CLASSIC-LINE NVD GA

- || 1.2 GHz DS-bandwidth, modular return path up to 204 MHz
- || **Gallium arsenide technology (GaAs)**
- || 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
- || Low noise by GaAs-FET-IC pre-amplifier stages
- || High output level using Power-Doubler GaAs-FET technology
- || AGC module available
- || Power pass of 10 A, immunity to surge voltages 6 kV
- || Compact die-cast housing IP 65



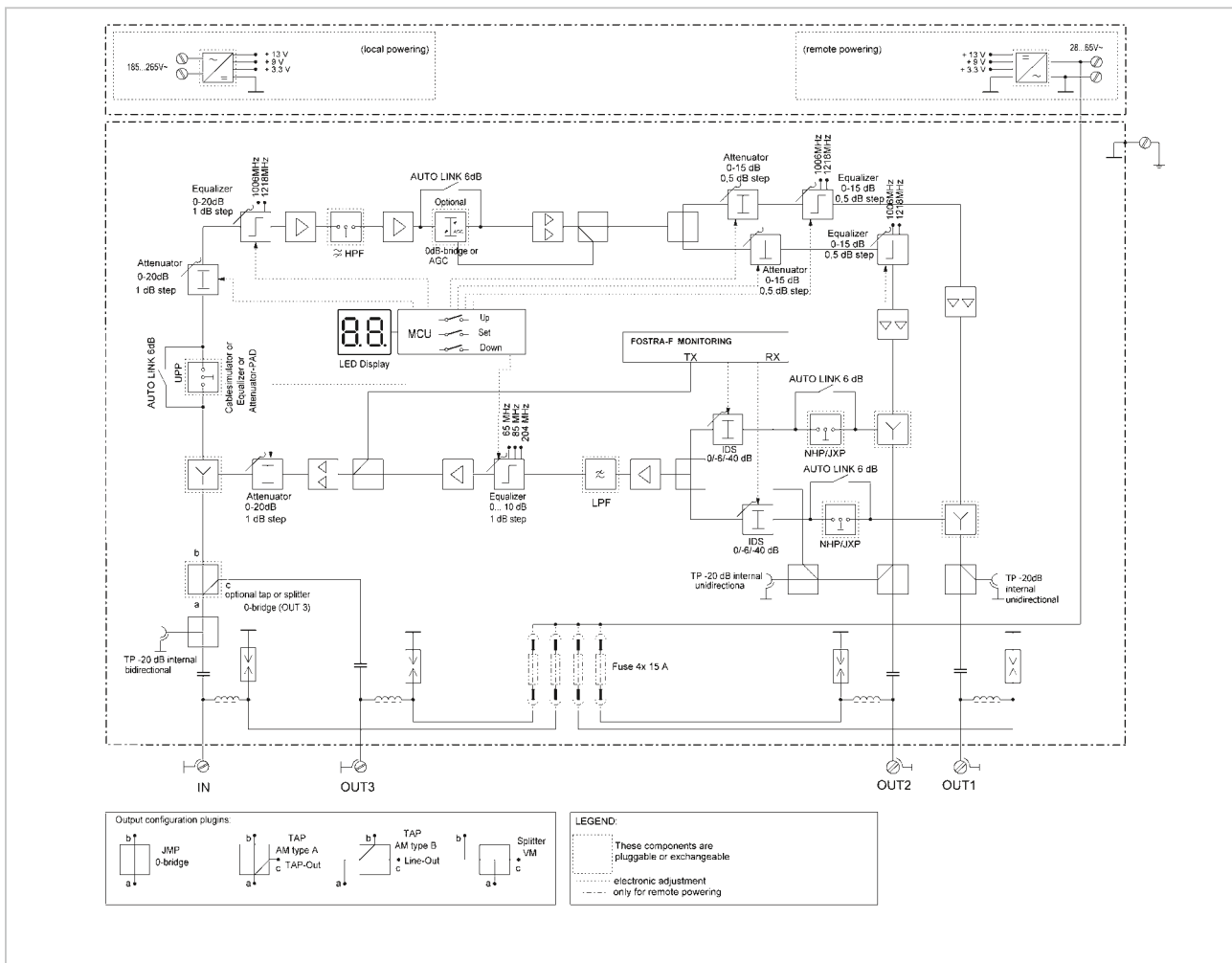
| Type | | NVD 9243 GA | NVD 9243 R GA |
|---|--------------------------------|---|-------------------------------|
| Item No. | | 57002980 | 57002812 |
| Final stage | | 2 x Power Doubler GaAs-FET | |
| Downstream | Frequency range | MHz | 40 - 1218 |
| | Gain | dB | 2 x 43 ± 1 |
| | Noise | dB | typ. 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 115 |
| | Output level digital*2 | dBμV | 2 x 108 |
| Return loss | dB | 18 at 40 MHz (-1.5 dB/Octave) | |
| Upstream | Frequency range | MHz | 5 - 65/85/204 (with diplexer) |
| | Gain | dB | 28 ± 1 |
| | 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 | |
| Noise | dB | 7 | |
| Power supply | V~ | 200 - 240 V local power *3 | 28 - 65 V remote power |
| Power pass | A | 10 | |
| Hum-isolation | dB | > 60 | |
| Power consumption | W | 35 (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 not incl.) | |
| 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

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pre-configured available:

| Item No. | Type | Description |
|----------|------------------|---|
| 57003164 | NVD 9243 R GA 65 | Trunk amplifier remote powered, gallium arsenide, 1.2GHz, 43dB, US 65/85 MHz |
| 57003165 | NVD 9243 R GA 85 | Trunk amplifier remote powered, gallium arsenide, 1.2GHz, 43dB, US 85/105 MHz |