

WISI VX 29 BH 80A

Value Line CATV Amplifier, remote powered, 1,2 GHz



Description

The VX 29BH 80A is a remote powered CATV amplifier for distribution applications or in-house installations up to 1,2 GHz. Two integrated switchable diplex filters, with 85 and 204 MHz frequency range, are the perfect solution to be prepared for the future network upgrade. All functional settings (Flex Access, ALSC, Auto Alignment, Attenuation, Slope, Equalizer, etc.) are adjusted via Bluetooth, using mobile devices or the WISI handheld OH41. The amplifier features have an active output and the possibility for upgrading an additional output or loop through input.

At a glance:

- High output level up to 1,2 GHz
- All settings (Gain, slope etc.) via WISI bluetooth App
- Auto Alignment for automatic level adjustment
- Automatic Level and Slope Control (ALSC) with adjustable pilot frequencies
- WISI FlexAccess technology for diplex switchover via Bluetooth or handheld
- Integrated diplex filters (85 MHz and 204 MHz)
- Interface for optional VT21 module, XM input and output modules
- Optional ICS receiver according to EN 60728-14

WISI VX 29 BH 80A

Technical data

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| Down-Stream / DS | |
| Frequency range | 108...1218/ 258...1218 MHz (F1/F2) |
| Noise figure | 9 dB |
| Gain | 44 dB ($\pm 0,75$ dB) |
| Frequency response | $\pm 0,75$ dB |
| Input attenuator | 0...20 dB (0,5 dB steps) |
| Interstage cable simulator | 0/5/10 dB |
| Interstage attenuator | 0...20 dB (0,1 dB steps) |
| Interstage equalizer | 0...25 dB (0,1 dB steps) / pivot point 1218MHz |
| Interstage Slope | 0...15 dB (1 dB steps) / pivot point 1218MHz |
| Output level | 110 dB μ V (all QAM (138 x 256 QAM), BER <1e-9, flat) |
| Output level | 112 dB μ V (all QAM (138 x 256 QAM), BER <1e-9, 12 dB slope) |
| Output level | 113 dB μ V (Cenelec 41 Ch,CTB/CSO >60 dB) |
| Output level | 115 dB μ V (Cenelec 41 Ch,CTB/CSO >60 dB slope 12 dB) |
| Input test point (bidirectional) | -20 dB ($\pm 1,5$ dB to 858 MHz / ± 2 dB 1218 MHz) |
| Output test point (directional coupler) | -20 dB ($\pm 0,75$ dB) |
| Automatic level and slope control (ALSC) | |
| ALSC Mode | off / one pilot / two pilots |
| Pilot frequencies | 40...1002 MHz / 0.1 MHz |
| Upstream (US) | |
| Frequency range | 5...85/5...204 MHz (F1/F2) |
| Gain | 32 dB ($\pm 0,75$ dB) |
| Frequency response | $\pm 0,75$ dB |
| Input attenuator | 0...15 dB (0,5 dB steps) |
| Interstage equalizer | 0...12 dB (1 dB steps) |
| Interstage attenuator | 0...15 dB (0,5 dB steps) |
| Noise figure | 8 dB |
| Output level | |
| F1 / 8 QAM256 BER <1E-9 | >113 dB μ V |
| NPR >50 dB | 60 MHz load / -7 dB μ V / dyn. >22 dB |
| F2 / 24 QAM256 BER <1E-9 | >107 dB μ V |
| NPR >50 dB | 192 MHz load. / -7 dB μ V/ dyn. >16 dB |
| Ingress Control Switch (ICS) | 0/ -6/ <-45 dB (Opt.with Receiver-mod) |
| General data | |
| RF connectors | PG11 |
| Impedance | 75 Ω |
| In/Output return loss | ≥ 18 dB 5...40 MHz; ≥ 18 dB 40...1218 MHz, -1,5 dB/oct. ≥ 12 dB |
| Supply voltage | 27...90 V AC |
| Power consumption | max. 24 W |
| Remote power current insertion | < 10 A |
| Remote power current in and outputs | < 10 A |
| Hum modulation @ 7A, f > 15 MHz | ≥ 70 dB |
| Ambient temperature | -20...+65 °C |
| Protection class | IP66 |
| EMC | EN50083-2 |
| Surge protection RF Ports | 6 kV (1,2/50 μ s pulse EN61000-4-5) |
| Bluetooth functionality | |

Technical data

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|--------------------------|---|
| Downstream configuration | Input attenuator, Interstage attenuator, interstage slope, interstage equalizer, interstage cable simulator, ALSC, FlexAccess |
| Upstream configuration | Input attenuator, Interstage attenuator, Interstage equalizer, ICS, ALSC, Flex Access |
| Options | ICS-Receiver according to EN60728-14 -> VT21, Input/Output modules ->XMxxB |

Packaging data

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|-----------------------------------|---------------------|
| Sales unit | 1 pcs. |
| Dimensions (WxHxD) sales unit | 236 x 80 x 144 mm |
| Packaging volume sales unit | 2.7 dm ³ |
| Gross weight sales unit | 1.8 kg |
| Shipping unit | 1 pcs. |
| Dimensions (WxHxD) shipping unit | 300 x 92 x 189 mm |
| Packaging volume shipping package | 5.2 dm ³ |
| Gross weight shipping unit | 2.1 kg |
| EAN | 4010056761035 |
| Article number | 76103 |
| Customs tariff number | 85437030 |