

# WISI VX 29 BL 80A

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



## Description

The VX 29BL 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 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
- Two 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

## Technical data

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 pivot point 1218 MHz)
Interstage equalizer	0...25 dB (0,1 dB steps)
Interstage Slope	0...15 dB (1 dB steps) / pivot point 1218MHz
Output level	
Output level	106 dB $\mu$ V (all QAM (138 x 256 QAM), BER <1e-9, flat)
Output level	108 dB $\mu$ V (all QAM (138 x 256 QAM), BER <1e-9, 12 dB slope)
Output level	111 dB $\mu$ V (CENELEC 41 Ch. (CSO/CTB > 60 dB), flat)
Output level	113 dB $\mu$ V (CENELEC 41 Ch. (CSO/CTB > 60 dB), 12 dB slope)
ALSC Mode	off/one pilot/two pilots Pilot frequency 40...1002 MHz / 0.1 MHz steps
Input test point (bidirectional)	-20 dB ( $\pm 1,5$ dB to 858 MHz / $\pm 2$ dB 1218 MHz)
Output test point (directional coupler)	-20 dB ( $\pm 0,75$ dB)

## 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	113 dB $\mu$ V ((8 x 256 QAM), BER <1E-9, US 85 MHz)
Output level	107 dB $\mu$ V ((24 x 256 QAM), BER <1E-9, US 204 MHz)
NPR >50 dB	>50dB (60 MHz load / -7dBuV / dyn. $\geq 22$ dB)
NPR >50 dB	>50dB (192 MHz load / -7dBuV / dyn. $\geq 16$ dB)
Ingress Control Switch (ICS)	0/ -6/ <-45 dB (Opt.with Receiver-mod)

## General data

RF connectors	PG11
Impedance	75 $\Omega$
In/Output return loss	$\geq 18$ dB 5...40 MHz; $\geq 18$ dB 40...1218 MHz, -1,5 dB/oct. $\geq 12$ dB
Input module slot	0 dB Bridge
Output module slot	0 dB Bridge
Universal module slot	-
Supply voltage	27...90 V AC
Power consumption	max. 24 W
Remote power insertion	< 10 A
Remote power current in and bypass	< 10 A
Hum modulation @ 7A, f > 15 MHz	$\geq 70$ dB
Ambient temperature	-20...+65 °C
Protection class	IP66
EMC	EN50083-2
Surge protection RF Ports	6 kV (1,2/50 $\mu$ s pulse EN61000-4-5)

## Technical data

Bluetooth functionality	
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, FlexAccess
Options	ICS-Receiver according to EN60728-14 -> VT21, Input/Output modules -> XMxxB

## Packaging data

Sales unit	1 pcs.
Dimensions (WxHxD) sales unit	244 x 164 x 80 mm
Packaging volume sales unit	3.2 dm <sup>3</sup>
Gross weight sales unit	1.6 kg
Shipping unit	1 pcs.
Dimensions (WxHxD) shipping unit	285 x 90 x 180 mm
Packaging volume shipping package	4.6 dm <sup>3</sup>
Gross weight shipping unit	1.8 kg
EAN	4010056755263
Article number	75526
Customs tariff number	85437030