

WISI VX 53 B

Compact Line CATV Amplifier



Description

The VX 53 B is a remotely powered universal line and distribution amplifier that has one active output and additional slots for a return path amplifier, control modules, diplex filter modules and splitter/tap modules. All settings can be adjusted via the OH 41 handset or an Android app via Bluetooth.

At a glance:

- Compact 1 GHz / 1,2 GHz high level CATV amplifier
- Remote powered
- All settings (gain, slope etc.) by WISI control unit (OH 41 Handset) or Android app via bluetooth
- Includes interface for NMS functionality: HMS or DOCSIS
- Management functionality according to EN 60728-14 available (ICS setting)
- Diplex filters and splitter / tap modules pluggable
- High level upstream amplifier pluggable
- ALSC module pluggable (VX 58B)
- Additional universal plug in modules

Technical data

Down-Stream / DS	
Frequency range downstream	851218 MHz (1 GHz/1,2 GHz equalizer switchable)
Gain downstream	46 dB ($\pm 0,75$ dB), (single output)
Frequency response	$\leq \pm 0,5$ dB
Noise figure	$\leq 6,5$ dB @ 1 GHz, $\leq 8,0$ dB @ 1,2 GHz
Output level	115 dB μ V (CENELEC 42 Ch. (CSO/CTB ≥ 60 dB), flat)
Output level	118 dB μ V (CENELEC 42 Ch. (CSO/CTB ≥ 60 dB), 9 dB slope @ 862 MHz)
Output level	109 dB μ V (all QAM (138 x 256 QAM), EN60728-3-1, flat)
Output level	111 dB μ V (all QAM (138 x 256 QAM), EN60728-3-1, 12 dB slope @ 1218 MHz)
Input return loss	≥ 20 dB (-1,5 dB/Oct.)
Attenuator downstream	20 dB (0,1 dB steps)
Interstage attenuator downstream	20 dB (1 dB steps)
Equalizer downstream	15 dB (0,1 dB steps)
Interstage equalizer downstream	15 dB (1 dB steps)
RF test points	-20 dB
Upstream (US)	
Frequency range upstream	5...65/85/204 MHz
High pass filter switchable	12 MHz
Gain upstream	30 dB
Frequency response upstream	$\leq \pm 0,5$ dB
Noise figure upstream	$\leq 5,5$ dB
Output level	115 dB μ V (CLC/TS50083-3-3 (BER ≤ 1 E-8, MER ≥ 35 dB), 5...65 MHz (6 x 64 QAM))
Output level	110 dB μ V (CLC/TS50083-3-3 (BER ≤ 1 E-8, MER ≥ 35 dB), 5...204 MHz (24 x 64 QAM))
NPR (>50 dB) EN60728-3	12 dB μ V/Hz (max. Input level (60 MHz load), 22 dB dyn. range)
NPR (>50 dB) EN60728-3	8 dB μ V/Hz (max. input level (200 MHz load), 19 dB dyn. range)
Return loss upstream (in / output)	≥ 20 dB (-1,5 dB/Oct.)
Attenuator upstream input	30 dB (1 dB steps)
Attenuator upstream output	30 dB (1 dB steps)
Equalizer US	15 dB (0,5 dB steps)
ICS, US	0/ -6/ < -45 dB
Upstream test point	-20 dB
RF injection point	-20 dB
General data	
RF connectors	PG11/F
Impedance	75 Ω
Supply voltage	2765 V AC
Power consumption	Max. 26,0 W (ALSC module max. 2,5 W, Transponder max. 3,5 W)
Remote power current in and outputs	< 10 A
Surge protection power supply	2 kV (1,2/50 μ s pulse EN61000-4-5)
Hum modulation @ 7A, f > 15 MHz	> 70 dB
Ambient temperature	-20...+65 $^{\circ}$ C
Protection class	IP67
EMC	EN 50083-2
Surge protection RF ports	6 kV (1,2/50 μ s pulse EN61000-4-5)
Dimensions (width x height x depth)	260 x 215 x 100,4 mm

Technical data

NMS / Handset / BT App Functionality	
Downstream	
Monitoring:	control level deviation, attenuator, equalizer, slope settings, pilot level state, pilot frequency, RF power level, 5V/24V supply voltage with HMS transponder
Configuration:	input attenuator, interstage attenuator, input equalizer, interstage slope, attenuation mode 1, ALSC adjustment, equalizer frequency 1/1,2 GHz
Alarms:	pilot level too high/low, control level deviation
Upstream	
Monitoring:	attenuator/slope setting, ICS switch position
Configuration:	input attenuator, output attenuator, slope, ICS, HP on/off

Packaging data

Sales unit	1 pcs.
Dimensions (WxHxD) sales unit	350 x 290 x 175 mm
Packaging volume sales unit	dm ³
Gross weight sales unit	355 kg
Shipping unit	1 pcs.
Dimensions (WxHxD) shipping unit	mm
Packaging volume shipping package	15 dm ³
Gross weight shipping unit	3655 kg
EAN	4010056738099
Article number	73809
Customs tariff number	85437030