



Home amplifier - 3-outputs,
1 Data, 2 TV ports

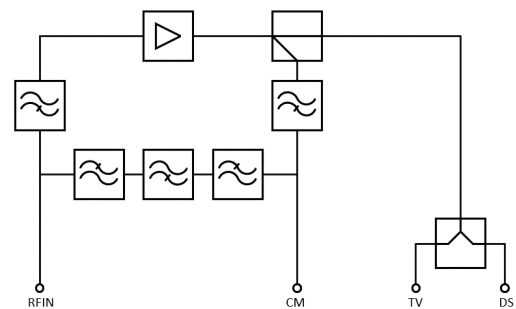
HOME AMPLIFIERS

3NIU-WO-PR085

The 3NIU-WO-PR085 is a 3-output Home Amplifier featuring two unidirectional TV ports and one bidirectional DATA port designed for systems with a 15-85/105-1218 MHz band split. Equipped with a 15 MHz ingress filter on the DATA port, it prevents interference from being introduced into the return path via an external source. Managing ingress noise is crucial for data carrier performance, especially when implementing advanced services in the return path.

3NIU-WO-PR085 features:

- DOCSIS 3.1 compatible amplifier
- 1 bidirectional DATA port
- 2 unidirectional TV ports
- 15 MHz ingress filter on the DATA port
- Passive upstream
- Wall power adapter with earth pin and lightning protection
- LTE proof
- Compatible with 4WO-BEL 2 GHz Wall Outlet



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TECHNICAL SPECIFICATIONS ⁽¹⁾			
Downstream signal path		Upstream signal path	
Frequency range	105...1218 MHz	Frequency range	15...85 MHz
Return loss	18 dB ⁽²⁾	Return loss	18 dB
Gains		Insertion Loss (max. / typ.)	
CM	4 dB	15 - 17 MHz	1.7 dB / 1.4 dB
DS	4 dB	17 - 81 MHz	1.2 dB / 1.0 dB
TV	0 dB	81 - 85 MHz	1.7 dB / 1.4 dB
Flatness	± 1 dB	Group Delay	≤ 15 ns
Group delay		Ingress suppression	≥ 35 dB ⁽⁴⁾
CM	105 - 110 MHz ≤ 17 ns 110 - 115 MHz ≤ 10 ns 115 - 1218 MHz ≤ 6 ns	Isolation CM-DS (min. / typ.)	35 dB / 40 dB
DS/TV	105 - 110 MHz ≤ 10 ns 110 - 1218 MHz ≤ 6 ns		
Noise figure	≤ 6 dB		
Isolation between ports			
CM - DS/TV	105 - 862 ≥ 30 dB 862 - 1006 ≥ 27 dB 1006 - 1218 ≥ 25 dB		
DS - TV	105 - 862 ≥ 27 dB 862 - 1006 ≥ 27 dB 1006 - 1218 ≥ 25 dB		
U_{max}	≥ 80 dBμV ⁽³⁾		
GENERAL SPECIFICATIONS			
Impedance	75 ohms	Input / output connectors	IEC female F-female IEC male
Supply voltage	230 VAC ± 10%	Dimensions	82 x 88 x 35 mm ⁽⁵⁾
Wall power adapter	Black, 3-poles, lightning and surge protections, 1.2 m power cord	Weight	550 g
Power consumption	3.0 W	Operating temperature	0...+40 °C
Housing	Zinc Alloy, ABS plastic cover	Class of enclosure	IP 20
Cover color	RAL1013	EMC compatibility	IEC 60728-2
LTE in-band immunity	790 – 960 MHz	Safety	IEC 60728-11
ESD	2 kV	Surge	1 kV, 1.2/50 μs

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NOTES

- (1) Typical values.
- (2) The limiting curve is defined at 40 MHz -1.5 dB / octave, minimum 12dB. Return loss is sloped between limits.
- (3) Min. value measured on DS (4 dB) port, at room temperature, with flat level 76 dB μ V QAM256 138 channels frequency raster at input. Tested according to IEC 60728-3, full digital loading up to 1218 MHz. BER measurement has been done on the worst channel between 114 and 1218 MHz.
- (4) The attenuation is measured in 5-10 MHz range.
- (5) Includes all connectors and extended plastic cover.

IMAGE OF KIT



A COMPLETE HIGH-QUALITY KIT...

The 3NIU-WO-PR085 Home Amplifier is compatible with our new, Next Generation Wall Outlet, 4WO-BEL. This compact, semi-isolated wall outlet features Teleste's award-winning integrated coaxial cable clamp technology, ensuring excellent connectivity performance.



ORDERING INFORMATION

3NIU-WO-PR085

Plugin 15-85/105-1218 MHz Home Amplifier with 3 outputs, 2 unidirectional TV and 1 bidirectional data. The amplifier is equipped with a wall power adapter with an earth pin.

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www.teleste.com

Home Amplifier 3NIU-WO-PR085_240119

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