

3DK4432-AR204 - 1218/204 MHz

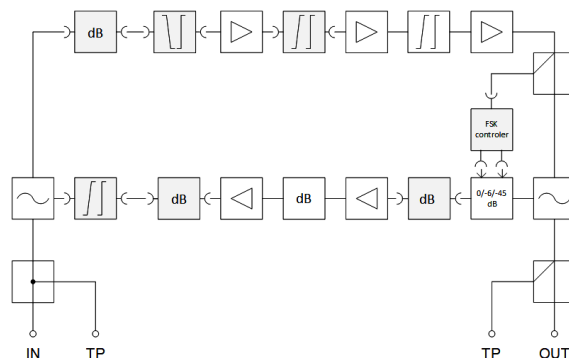
HOUSE CONNECTION AMPLIFIERS

3DK4432-AR204

The 3DK4432-AR204 is a House Connection Amplifier for 1218 MHz downstream and 204 MHz upstream. The amplifier is locally powered and uses jumpers and JXP attenuators for easy alignment. Designed for Network Level 4, the amplifier has low noise figures and is dedicated for high upstream RF levels while simultaneously providing high MER/BER in both directions.

3DK4432-AR204 features:

- Wide application range, including network level 4 (NE4)
- Compact and robust housing
- Easy installation and alignment
- Low noise figure in either direction
- High performance for full digital payload applications
- Either manual or remote ingress switching with an option module



TELESTE

HOUSE CONNECTION AMPLIFIER / 3DK4432-AR204

TECHNICAL SPECIFICATIONS ⁽¹⁾			
Downstream signal path		Upstream signal path	
Gain	44 dB ⁽²⁾	Gain	32 dB ⁽²⁾
Frequency range	258...1218 MHz	Frequency range	5...204 MHz
Return loss	≥ 18 dB ⁽³⁾	Return loss	≥ 18 dB
Input attenuator JXP	0...20 dB	Output level	108 dBμV ⁽⁶⁾
Cable simulator JXP	0...8 dB ⁽⁴⁾	Input attenuator JXP	0...20 dB
First interstage equalizer JXP	0...14 dB	Interstage equalizer JXP	0...20 dB
Second interstage equalizer Jumper	0/7 dB	Output attenuator JXP	0...10 dB
Flatness	± 0.8 dB	Ingress switching	0/-6/-45 dB ⁽⁷⁾
Group delay	6 ns	Flatness	± 0.8 dB
Noise figure	≤ 5.5 dB	Noise figure	≤ 5.5 dB
Output level	≥ 109 dBμV ⁽⁵⁾	Group delay	15 ns
ISOLATION BETWEEN DOWN AND UPSTREAM			
Down- to upstream	C/N _o ≥ 121 dBc/Hz		
Up- to downstream	C/N _o ≥ 110 dBc/Hz		
GENERAL SPECIFICATIONS			
Connectors	Input and output Test points	F connector F connector	
Test points	20 dB ± 1.5 dB, directional coupler		
Impedance	75 ohms	Operating temperature	-20...+55 °C
Power supply	230 VAC ±10%	Class of enclosure	IP 20
Power consumption	≤ 17 W	Safety	EN/IEC 60728-11
Housing	Die-cast Zinc or Aluminum	EMC	EN 50083-2
Dimensions	22 x 21 x 8 cm (w x h x d) ⁽⁸⁾	ESD	4 kV, EN/IEC 61000-4-2
Weight	2 kg	Surge	1 kV, EN/IEC 60728-3, EN/IEC 61000-4-5

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NOTES

(1) Typical values.

(2) Nominal gain in room temperature.

(3) The limiting curve is defined at 204 MHz -1.5 dB / octave. Return loss is always > 12 dB. According to EN 60728-3.

(4) Slope and cable simulator slope value set by JXP plugin according to following conversion table:

Plugin value (dB)	Slope (dB) (approx.)	Plugin value (dB)	Slope (dB) (approx.)
2	1.6	12	9.2
4	3.1	14	10.9
6	4.7	16	12.4
8	6.2	18	14.0
10	7.8	20	15.5

(5) According to EN 60728-3, with a full digital load when 7 dB second interstage equalizer is enabled.

(6) Typical value, with flat output, using a digital load of 24 x 256QAM. Measured according to EN 60728-3.

(7) Ingress switching requires an optional module. The led color coding according to following table:

ICS setting	ICS led
No module	Black
0 dB	Green
-6 dB	Yellow
-45 dB	Red

(8) Housing size, including F connectors. Reserve an additional approx. 4 cm in width for power supply cable.

ORDERING INFORMATION

3DK4432-AR204

Equipped with:

- 75Ω terminator (both test points)
- 0 dB attenuators (in JXP-slots)
- Fixed power cable, 100 cm with flat Euro plug

2 pcs
6 pcs

Optional accessories (not included)

C7/C8

C7/C8 power cable with Euro plug (only possible at time of ordering)

CXT001

FSK controller module

CXT002

On-site service module

CXT003

FSK controller module (customer specific)



CXT001 FSK receiver



CXT002 On-site service module

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Home Amplifier 3DK4432-AR204_240118

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