



### Configuration Sheet (options to be ordered separately)

**Please fill in this sheet and return it to 3 MAD immediately (Fax: +4989.4129.13357)**

**Customer:** \_\_\_\_\_

**R&S Order No.** \_\_\_\_\_ **Pos.** \_\_\_\_\_

(You may put in your order number to RSM)

**Report Configuration :** A=\_\_\_; B=\_\_\_; C=\_\_\_; D=\_\_\_; E=\_\_\_

Configuration summary

A) Modulation Mode & B) Input Selection (Please select only one configuration)

EFA Model	Analog TV		DVB-C		Analog TV + DVB-C		DVB-T		Analog TV + DVB-T		8VSB
	12, 72, 78	33, 83, 89	20	23	12, 78 + EFA-B1	33, 89 + EFA-B1	40	43	12, 78 + EFA-B10	33, 89 + EFA-B10	53
High-end Demodulator N - 50Ω / rear panel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High-end Test Receiver 2 x N-50Ω / BNC-75Ω / rear panel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standard Test Receiver BNC - 50Ω / rear panel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standard Test Receiver BNC - 50Ω / front panel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standard Test Receiver N - 50Ω / rear panel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standard Test Receiver BNC - 75Ω / rear panel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standard Test Receiver BNC - 75Ω / front panel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

A=x; B=x: Information for 3MAD

C) Analog TV : Standard (n/a for the pure digital DVB-C, DVB-T or 8VSB version)

(Please refer to page 2)

D) Analog TV : Group Delay Correction (n/a for the pure digital DVB-C, DVB-T or 8VSB version)

(must be in accordance with C; Please refer to page 3)

E) SAW Filter Selection (Please select up to 3 options – one is free of charge – n/a for pure analog units)

EFA option :	BW = 6MHz EFA-B11	BW = 7MHz EFA-B12	BW = 8MHz <i>OFDM</i> EFA-B13 (var. 02)	BW = 8MHz <i>QAM/8VSB</i> EFA-B13 (var. 03)	BW = 2MHz EFA-B14
DVB-C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DVB-T	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8VSB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

E=x: Information for 3MAD

**Analog TV : Standard Selection according to EFA configuration sheet, version 3.1 of December 19th, 2000**

Standard EFA model	<b>C1</b> B/G 12 or 33	<b>C2</b> D/K 78 or 89	<b>C3</b> D/K 78 or 89	<b>C4</b> D/K NICAM 78 or 89	<b>C5</b> I Terrestrial <sup>2)</sup> 78 or 89	<b>C6</b> I CATV <sup>3)</sup> 78 or 89	<b>C7</b> K1 78 or 89	<b>C8</b> M (USA/Japan) 72 or 83	<b>C9</b> N (South America) 72 or 83
IF (vision)	38,9 MHz	38,9 MHz	38,9 MHz	38,9 MHz	38,9 MHz	38,9 MHz	38,9 MHz	45,75 MHz	45,75 MHz
Video Bandwidth	5,0 MHz	6,0 MHz	6,0 MHz	5,0 MHz	5,5 MHz	5,0 MHz	6,0 MHz	4,2 MHz	4,2 MHz
FM 1 Carrier frequency	5,5 MHz	6,5 MHz	6,5 MHz	6,5 MHz	6,0 MHz	6,0 MHz	6,5 MHz	4,5 MHz	4,5 MHz
FM 2 <sup>1)</sup> Carrier Frequency	5,742 MHz	6,742 MHz	6,258 MHz	6,258 MHz					
NICAM carrier frequency	5,85 MHz			5,85 MHz	6,552 MHz	6,552 MHz			

<sup>1)</sup> Audio transmission acc. to analog dual carrier system A2 (IRT system)

<sup>2)</sup> Nyquist Slope for vestigial sideband of 1.5 MHz

<sup>3)</sup> Nyquist Slope for vestigial sideband of 0.75 MHz

**Analog TV : Group Delay Correction according to EFA configuration sheet, version 3.1 of December 19th, 2000**

	<b>D1</b>	<b>D2</b>	<b>D3</b>	<b>D4</b>	<b>D5</b>	<b>D6</b>	<b>D7</b>	<b>D8</b>	<b>D9</b>	<b>D10</b>	<b>D11</b>	<b>D12</b>	<b>D13</b>	<b>D14</b>	<b>D15</b>
Group Delay Correction	B/G General	B/G Sweden	B/G Norway	B/G Denmark	B/G Australia	B/G general/2 (reduced by 50%)	B/G New Zealand	D/K CCIR Report 308	D/K OIRT TK-III-830	D/K OIRT GOST 20532-75	D/K GOST 20532-83	D/K CSFR	I SABC TVT 12.2	K1	M FCC
EFA Model	12 or 33	12 or 33	12 or 33	12 or 33	12 or 33	12 or 33	12 or 33	78 or 89	78 or 89	78 or 89	78 or 89	78 or 89	78 or 89	78 or 89	72 or 83
Frequency [MHz]	Nominal [ns]	Nominal [ns]	Nominal [ns]	Nominal [ns]	Nominal [ns]	Nominal [ns]	Nominal [ns]	Nominal [ns]	Nominal [ns]	Nominal [ns]	Nominal [ns]	Nominal [ns]	Nominal [ns]	Nominal [ns]	Nominal [ns]
0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.25	-5	0	0	-5		-2.5		-5		-5			0	0	0
0.5		0	0							-10	-8		0	0	0
1.0	-53	0	0	-53	-30	-26.5		-53	-40	-40	-40	-40	0	0	0
1.5		0	0							-70			0	0	0
2.0	-90	0	0	-75	-60	-45		-87	-75	-80	-85	-85	0	0	0
2.25		0	0				-60						0	0	0
3.0	-75	0	0	-75	-40	-37.5	-60	-85	-90	-80	-92	-90	0	0	25
3.5		0			0								0	0	
3.58		0											0	0	170
3.6		0	20										0	0	
3.75	0					0	0						0	0	
3.8				0									0	0	
4.0			50					-50	-70	-40	-60	-60	0	0	293
4.18															340
4.43	170	175	170	170	170	85	170	0		0	-25	-25	40	15	
4.7											0	0			
4.8	400	400	350	400	260	200	400						100		
5.0								90	0	80		70		90	
5.5									90		260				
5.8									175						
6.0									225						

**Table of the available EFA models & options, version 3.1 of December 19th, 2000**

Option	Standard	Models => Identification number	Standard Test Receiver					High-end Demodulator or High-end test receiver					Slots needed	
			20 DVB-C	40 DVB-T	12 B/G	72 M/N	78 D/K - I	23 DVB-C	43 DVB-T	53 8VSB	33 B/G	83 M/N		89 D/K - I
EFA-B1	DVB-C Demodulator	2067.3604.02	✓		○ <sub>4)</sub>		○ <sub>4)</sub>	✓			○ <sub>4)</sub>		○ <sub>4)</sub>	1
EFA-B2	Nicam Demod./Decod. Std B/G or D/K	2067.3610.02			○		○				○ <sub>7)</sub>		○ <sub>7)</sub>	1
EFA-B2	Nicam Demod./Decod. Std I	2067.3610.04					○						○ <sub>7)</sub>	1
EFA-B3	RF Selection	2067.3627.02						○	○	○	○ <sub>6)</sub>	○	○ <sub>6)</sub>	1
EFA-B4	MPEG2 Decoder	2067.3633.02	○	○	○ <sub>1)</sub>		○ <sub>1)</sub>	○	○		○ <sub>1) 5)</sub>		○ <sub>1) 5)</sub>	1
EFA-B6	Video Distributor	2067.3656.02						○ <sub>3)</sub>	○ <sub>3)</sub>		○	○	○	0
EFA-B7	Switchable Video BW	2067.3710.02			○						○			1
EFA-B8	RPC Measurement	2067.3727.02			○	○	○				○	○	○	0
EFA-B9	Pilot Deviation Meas.	2067.3733.02			○ <sub>2)</sub>		○ <sub>2)</sub>				○ <sub>2)</sub>		○ <sub>2)</sub>	0
EFA-B10	DVB-T Demodulator	2067.3760.02		✓	○ <sub>4)</sub>		○ <sub>4)</sub>		✓		○ <sub>4)</sub>		○ <sub>4)</sub>	1
EFA-B11	6MHz SAW Filter	2067.3691.00	○	○	○ <sub>1)</sub>		○ <sub>1)</sub>	○	○	○	○ <sub>1)</sub>		○ <sub>1)</sub>	0
EFA-B12	7MHz SAW Filter	2067.3591.00	○	○	○ <sub>1)</sub>		○ <sub>1)</sub>	○	○		○ <sub>1)</sub>		○ <sub>1)</sub>	0
EFA-B13	8MHz SAW Filter OFDM	2067.3579.02		○	○ <sub>1)</sub>		○ <sub>1)</sub>		○		○ <sub>1)</sub>		○ <sub>1)</sub>	0
EFA-B13	8MHz SAW Filter QAM/8VSB	2067.3579.03	○		○ <sub>1)</sub>		○ <sub>1)</sub>	○		○	○ <sub>1)</sub>		○ <sub>1)</sub>	0
EFA-B14	2MHz SAW Filter	2067.3562.00	○		○ <sub>1)</sub>		○ <sub>1)</sub>	○		○	○ <sub>1)</sub>		○ <sub>1)</sub>	0
ZZT-314	KB90 bag for 3HU high units	1001.0523.00	○	○	○	○	○	○	○	○	○	○	○	0

Each basic unit offers three free slots to take up options.

✓ = Included in basic unit; ○ = Available

- 1) Can be retrofitted if option EFA-B1 or EFA-B10 is built in
- 2) Included in basic unit for EFA models manufactured after May 1999
- 3) Can be retrofitted if option EFA-B4 is built in
- 4) One digital demodulator can be installed: DVB-C or DVB-T
- 5) Can be retrofitted if option EFA-B3 is **not** built in
- 6) Can be retrofitted if option EFA-B4 is **not** built in
- 7) Can be retrofitted if option EFA-B1 is **not** built in

## Configuration Sheet (options to be ordered separately)

**Please fill in this sheet and return it to 3 MAD immediately (Fax: +49 30 250 129.1335)**

Customer: **Cable Operator XYZ**

R&S Order No. **60612-3456** Pos. **0300**

(You may put in your order number to RSM)

Report Configuration : A=**3** ; B=**6** ; C=**6** ; D=**13** ; E=**4 5**

Configuration Summary

**A) Modulation Mode & B) Input Selection** (Please select only one configuration)

EFA Model	Analog TV		DVB-C		Analog TV + DVB-C		DVB-T		Analog TV + DVB-T		8VSB	
	12, 72, 78	33, 83, 89	20	23	12, 78 + EFA-B1	33, 89 + EFA-B1	40	12, 78	33, 89 + EFA-B10	53		
High-end Demodulator N - 50Ω / rear panel	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=1 ; B=1	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=2 ; B=1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=4 ; B=1	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=5 ; B=1	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=6 ; B=1	<input type="checkbox"/>
High-end Test Receiver N-50Ω / BNC-50&75Ω / rear panel	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=1 ; B=1 + EFA-B3	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=2 ; B=1 + EFA-B3	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=3 ; B=1 + EFA-B3	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=4 ; B=1 + EFA-B3	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=5 ; B=1 + EFA-B3	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=6 ; B=1 + EFA-B3
Standard Test Receiver BNC - 50Ω / rear panel	<input checked="" type="checkbox"/> A=1 ; B=2	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=2 ; B=2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=4 ; B=2	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=5 ; B=2	<input type="checkbox"/>	<input type="checkbox"/>	
Standard Test Receiver BNC - 50Ω / front panel	<input checked="" type="checkbox"/> A=1 ; B=3	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=2 ; B=3	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=3 ; B=3	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=4 ; B=3	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=5 ; B=3	<input type="checkbox"/>	<input type="checkbox"/>	
Standard Test Receiver N - 50Ω / rear panel	<input checked="" type="checkbox"/> A=1 ; B=4	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=2 ; B=4	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=3 ; B=4	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=4 ; B=4	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=5 ; B=4	<input type="checkbox"/>	<input type="checkbox"/>	
Standard Test Receiver BNC - 75Ω / rear panel	<input checked="" type="checkbox"/> A=1 ; B=5	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=2 ; B=5	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=3 ; B=5	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=4 ; B=5	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=5 ; B=5	<input type="checkbox"/>	<input type="checkbox"/>	
Standard Test Receiver BNC - 75Ω / front panel	<input checked="" type="checkbox"/> A=1 ; B=6	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=2 ; B=6	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=3 ; B=6	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=4 ; B=6	<input type="checkbox"/>	<input checked="" type="checkbox"/> A=5 ; B=6	<input type="checkbox"/>	<input type="checkbox"/>	

A=x ; B=x : Information for 3MAD

**C) Analog TV : Standard** (n/a for the pure digital DVB-C, DVB-T or 8VSB version)  
(Please refer to page 2)

**C=6 from sheet 2**

**D) Analog TV : Group Delay Correction** (n/a for the pure digital DVB-C, DVB-T or 8VSB version)  
(must be in accordance with C; please refer to page 2)

**D=13 from sheet 3**

**E) SAW Filter Selection** (Please select up to 3 options – one is free of charge – n/a for pure analog units)

EFA Model	BW = 6MHz EFA-B11	BW = 7MHz EFA-B12	BW = 8MHz OFDM EFA-B13 (var. 02)	BW = 8MHz QAM/8VSB EFA-B13 (var. 03)	BW = 2MHz EFA-B14
DVB-C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> E=4	<input checked="" type="checkbox"/> E=5
DVB-T	<input type="checkbox"/>	<input checked="" type="checkbox"/> E=2	<input type="checkbox"/> E=3	<input type="checkbox"/>	<input type="checkbox"/>
8VSB	<input checked="" type="checkbox"/> E=1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> E=4	<input type="checkbox"/> E=2

E=x : Information for 3MAD