



TRIAX

connecting the future

Wall Outlet Platform

ready for DOCSIS 2.0/3.0 and 3.1

TRIAX's innovation team has been working passionately to ensure customers receive full advantage of what the DOCSIS 3.1 offers to increase network capacity. TRIAX's new switchable outlet platform is designed to function not only with the current 65 MHz upstream range but also operates with DOCSIS 3.0 and DOCSIS 3.1 under considering of special conditions. This brings a cost optimisation for the operator and high value for the user since the operator only needs to visit the home once to make all network capacity functions. When there is a need to switch to a new network capacity the end customer will experience a minimum of disruption.

TRIAX have two families of the new Multimedia Outlets

- **EDM** (single terminated type)
- **GDM** (loop through type)

- both with fix filters to isolate the DATA port from the TV port. The current models are designed for an upstream to 65 MHz (DOCSIS 2.0). They can be ordered on request as special version for an upstream range until 85 MHz (DOCSIS 3.0) and 204 MHz (DOCSIS 3.1) as well.

The DOCSIS-Switch models EDM/GDM-DS are in preparation with the capability to switch between DOCSIS 2.0/3.0 and 3.1 operation.

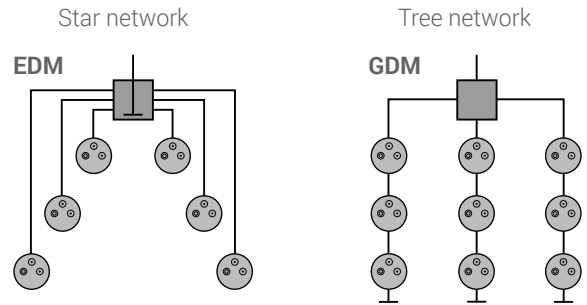
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Network structures



Technical Specifications:

Type			EDM 1	EDM 06	GDM 10	GDM 12	GDM 15	GDM 19	
Art. No.			306270	306271	306272	306273	306274	306275	
Application			Single ended	Single ended	Through pass				
Technology			Filter	Single directional coupler + filter	Double directional couplers in trunk line + filter				
Electrical characteristics									
Transmission bands	IN > OUT	MHz	-	-	5 - 1800	5 - 1800	5 - 1800	5 - 1800	
	IN > DATA	MHz	5-65 / 109-1800	5 - 1800	5 - 1800	5 - 1800	5 - 1800	5 - 1800	
	IN > TV	MHz	109 - 1200	109 - 1200	109 - 1200	109 - 1200	109 - 1200	109 - 1200	
	IN > FM	MHz	87,5 - 108	87,5 - 108	87,5 - 108	87,5 - 108	87,5 - 108	87,5 - 108	
	IN > DATA (RP)	MHz	5 - 65	5 - 65	5 - 65	5 - 65	5 - 65	5 - 65	
Insertion loss (IN > OUT)	5 - 862 MHz	dB +/- 1	-	-	3,5	2,5	1,6	1,4	
	862-1200 MHz	dB +/- 1	-	-	3,5	2,5	1,6	1,4	
	1200 - 1800 MHz	dB +/- 1,5	-	-	5	3,5	2,6	2,4	
IN > DATA	5-65 MHz	dB +/- 1	1	6.0	10*	12*	15*	19*	
	< 1000 MHz	dB +/- 1	4	6.0	10	12	15	19	
	< 1200 MHz	dB +/- 1	5	6.0	10	12	15	19	
	< 1800 MHz	dB +/- 1,5	5	6.0	11	13	16	19	
IN > TV	5- 65 MHz		52	52	52	52	52	52	
	109-1000 MHz	dB +/- 1	4****	6**	10**	12**	15**	19**	
	< 1200 MHz	dB +/- 1,5	4	6	10	12	15	19	
IN > R	5-65 MHz	> dB	52	52	52	52	52	52	
	87,5-108 MHz	dB +/- 1,5	7,5****	8,5	12,5	14,5	17	21	
Isolation	DATA/TV,R 5-65 MHz	> dB	52	65	65	65	65	65	
	DATA/TV,R 85-200MHz	> dB	20	36	35	35	40	40	
	DATA/TV,R 200- 862MHz	> dB	20	30	30	30	30	30	
	OUT/ TV,R	> dB	-	-	30	30	30	30	
	OUT/ DATA 5-200MHz	> dB	-	-	25	25	30	30	
	OUT/ DATA 200-862MHz	> dB	-	-	25	25	25	25	
	TV/ R	> dB	10*****	20	20	20	20	20	
Return loss	IN, OUT	> dB	14 -1,5/oct	16 -1,5/oct	18 -1,5/oct	18 -1,5/oct	18 -1,5/oct	18 -1,5/oct	
	DATA	> dB	14 -1,5/oct	18 -1,5/oct	18 -1,5/oct	18 -1,5/oct	18 -1,5/oct	18 -1,5/oct	
	TV	> dB	14 -1,5/oct	14 -1,5/oct	14 -1,5/oct	14 -1,5/oct	14 -1,5/oct	14 -1,5/oct	
	R	> dB	10	10	10	10	10	10	
	IN,OUT,DATA@ 1800MHz	> dB	8	8	8	8	8	8	
Intermodulation	EN 60728-4 5.3.4.8								
all Ports	15 dBµV in DS @ US two tone 120 dBµV after surge								
Shielding	5 - 470 MHz	> dB				95			
	470 - 1000 MHz	> dB				85			
	1000 - 1800 MHz	> dB				85			
Mechanical requirements									
Connectors	TV				IEC-male - IEC 61169-2				
	RADIO				IEC-female - IEC 61169-2				
	DATA				F-female - IEC 61169-24				
Standards of reference									
Passive broadband devices for coaxial networks						EN 60728-4			
System performance of forward path						EN 60728-1			
EMC (CE)						EN 50083-3			
RoHS2 (CE)									

* 5-15MHz tolerance +/-1,5dB
 ** maximal +3dB @ 109MHz (within 16MHz)
 *** maximal +3.5dB @ 108MHz (within 4MHz)
 **** maximal +4.0dB @ 109MHz (within 8MHz)
 ***** according to EN 60728-4