



# TRIAX

connecting the future

## DOCSIS Switch Multimedia Wall Outlets EDM/GDM xx DS

Make the future possible today  
- for your residents and cable network subscribers

Our new DOCSIS Switch wall outlets are specially developed to operate with the current up to 65 MHz return path standard, as well as for the extension of the return path frequency range in future DOCSIS 3.1 implementation.

### The solution:

By using the small "DOCSIS Switch" located behind the outlet's cover plate, the return path filters in the multimedia outlet can be switched between two setups:

#### Switch in base position

- Upstream 5-65 MHz:  
downstream FM +TV starting from 109 MHz
- Upstream 5-85 MHz:  
downstream no FM, TV starting from 109 MHz

#### Switch in „+“ position

- Upstream 5-204 MHz:  
no FM, TV starting from 258 MHz
- Upstream 5-400 MHz:  
downstream no FM, TV starting from around 500 MHz

### Your benefits:

Save money and maintain a satisfied customer base when network upgrades to different levels of DOCSIS 3.1 take place during the coming years – our outlets won't need to be replaced or have unwelcome filters attached.

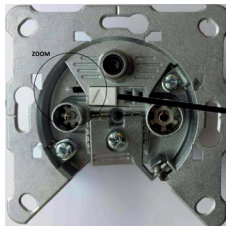
### Special characteristics:

- Return path filter switchable between 65/85 MHz <-> 204 MHz – high isolation between Data and TV ports at all levels of DOCSIS operation levels suppresses TV signal interference caused by upstream modem traffic.
- Frequency range of 5... 1.200...1.800 MHz – ready for all relevant frequency allocations of DOCSIS 2.0, 3.0 and 3.1.
- Enhanced screening attenuation Class A+10dB – protects against interference distortions such as ingress and LTE mobile radio.
- Low intermodulation – avoids composite beat distortions within the TV band caused by parallel operation of the cable modem.
- Tried and trusted TRIAX outlet mechanic with push-clamp connectors, Made in Denmark – for unbeatably fast and efficient installation.

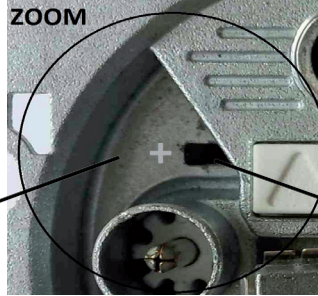
[triax.com](http://triax.com)



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## DOCSIS Switch



Switch to the left (+)  
DOCSIS Upstream  
5-204-(400) MHz

Switch to the right  
DOCSIS Upstream  
5-65-85 MHz

## Technical specification (preliminary)

Type	EDM 6 DS	GDM 10 DS	GDM 12 DS	GDM 15 DS	GDM 19 DS
<b>Art.no.</b>	<b>306271</b>	<b>306272</b>	<b>306273</b>	<b>306274</b>	<b>306275</b>
Application	Single ended			Through pass	
<b>Insertion loss</b>					
IN > OUT					
5 - 1218 MHz	dB ± 1	-	3,8	2,8	1,6
1218 - 1794 MHz	dB ± 1	-	4,8	3,8	2,4
IN > DATA					
5 - 1218 MHz	dB ± 1	6	10,2	12,5	15
1218 - 1794 MHz	dB ± 1	7	11,2	13,5	16
<b>DOCSIS Switch position</b>					
<b>left on +</b>	<b>right</b> (factory setting)				
IN > TV					
5 - 204 MHz	5 - 85 MHz	dB >	52	52	52
258 - 1000 MHz	109 - 1000 MHz	dB ± 1	6,5	10,5	15,5
1000 - 1218 MHz	1000 - 1218 MHz	dB ± 1	6,5	10,5	12,5
IN > RF					
not applicable	5 - 85 MHz	> dB	52	52	52
not applicable	87,5 - 108 MHz	dB ± 1,5	9	13	15,3
<b>Isolation between ports</b>					
DATA <> TV		DATA <> TV, R			
5 - 204 MHz	5 - 85 MHz	dB >	60	60	60
204 - 400 MHz	85 - 400 MHz	dB >	35	40	45
400 - 862 MHz	400 - 862 MHz	dB >	30	30	30
862 - 1218 MHz	862 - 1218 MHz	dB >	20	20	20
TV <> R		TV <> R			
not applicable	109 - 1000 MHz	dB >	20	20	20
OUT > TV		OUT > TV, R			
5 - 204 MHz	5 - 65 MHz	dB >	-	55/60	55/60
204 - 862 MHz	65 - 862 MHz	dB >	-	30	22
862 - 1218 MHz	862 - 1218 MHz	dB >	-	20	20
OUT - DATA					
5-204 MHz		dB >	-	20	30
204-1218 MHz		dB >	-	20	19
1218-1794 MHz		dB >	-	18	12
<b>Return loss minimum according to 47 MHz</b>					
IN, OUT		dB >	14-1,5/oct	18-1,5/oct	18-1,5/oct
DATA (F-female)		dB >	18-1,5/oct	18-1,5/oct	18-1,5/oct
TV (IEC-male)		dB >	14-1,5/oct	14-1,5/oct	14-1,5/oct
R (IEC-female)		dB >	10	10	10
IN, OUT, DATA 1218 - 1794 MHz		dB >	From 1218 MHz linearly decreasing to 8 dB at 1794 MHz		
<b>Intermodulation</b>					
all Ports		dB <	15 dBµV in DS @ US two tone 120 dBµV after surge		
<b>Shielding</b>					
		dB >	Class A +10 dB		
<b>Standards of reference</b>					
Passive broadband devices for coaxial networks			EN 60728-4		
IEC- connectors			IEC 61169-2		
F - connectors			IEC 61169-24		
CE Conformity EMC-D 2014/30/EU			EN 50083-2, RoHS 2011/65/EU		

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