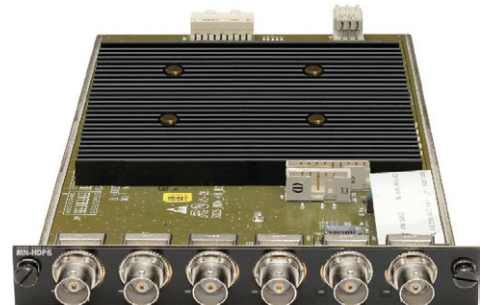


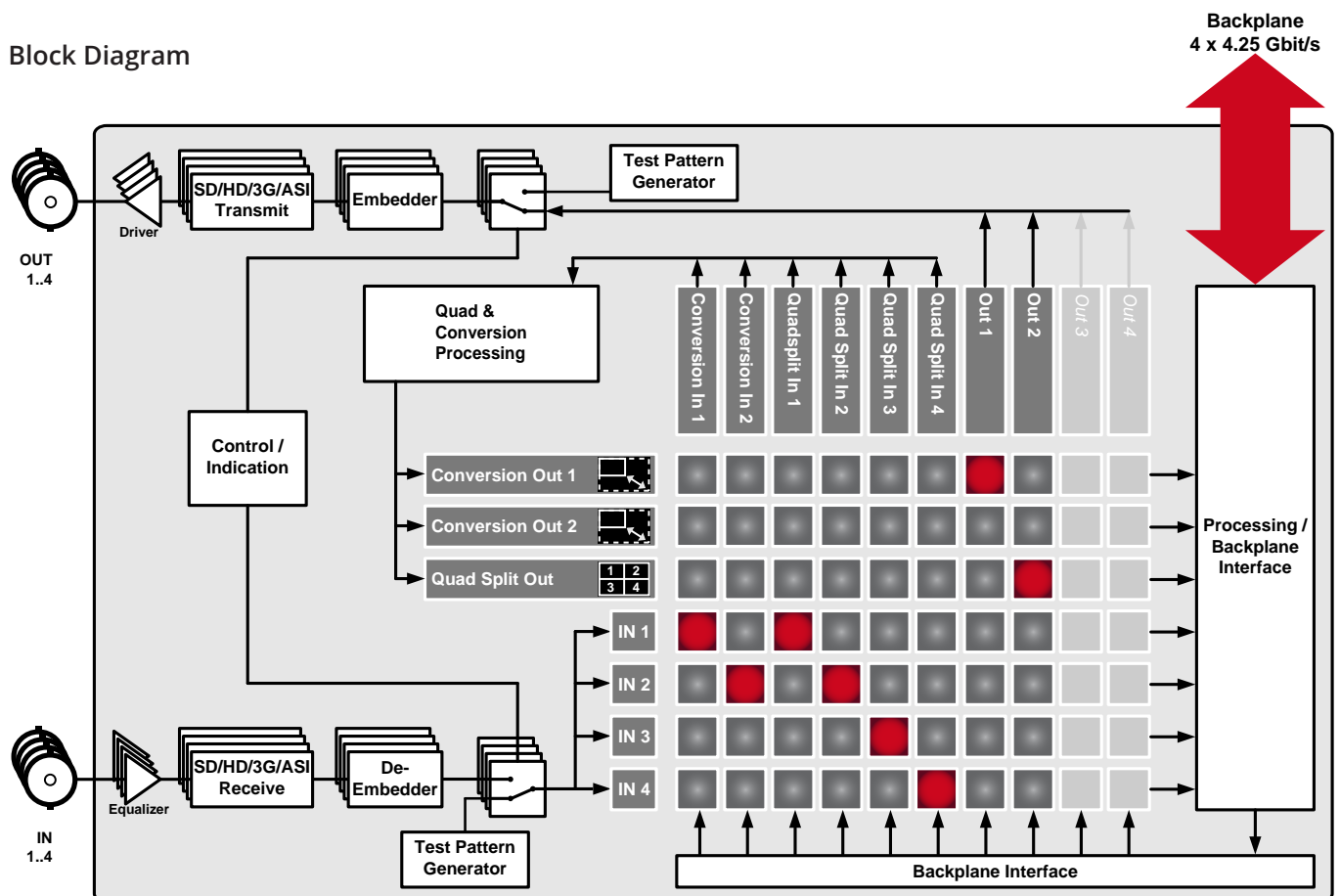
# MediorNet MN-HDP-6

The MN-HDP-6 Card provides six in-/outputs for Video signals.

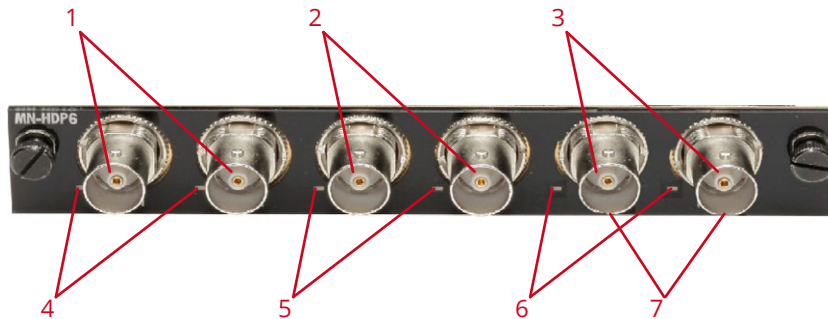
- 2 inputs with BNC connectors
- 2 outputs with BNC connectors
- 2 BNC connectors that independently can be configured as input or output
- Up to 4 HD/SD-SDI/ASI or 2 3G Video inputs
- Up to 4 HD/SD-SDI/ASI or 2 3G Video outputs
- Each port operates independently
- Video Format Converter
- Quad Split with configurable Audio Bars, UMD and Tally fields (supports TSL Tally Manager Protocol V5.0)
- Auto Format Detection
- Frame Synchronizer
- Video Delay
- Video Test Pattern Generator
- Audio Embedder / De-Embedder (4 groups) with Sample Rate Converter
- Audio Delay
- On Screen Display (Signal Info, Connection Status, Timecode)
- The MN-HDP-6 Card must be fitted into a High-Speed slot and it occupies one slot, so it can be placed in the slots 1, 5, 6, 7, 9 and 10 of the Modular mainframe.



## Block Diagram



# MediorNet MN-HDP-6



## Legend

- 1) Input Port 1 / 2
- 2) Output Port 1 / 2
- 3) In-/Output Port 3 / 4
- 4) Status LED Input Port 1 / 2
- 5) Status LED Output Port 1 / 2
- 6) Status LED In-/Output Port 3 / 4
- 7) Direction LED Port 3 / 4

### Status LEDs

	off	green	orange	red	green direction
Video In Status	No input signal	Valid Video signal input	Test Pattern active	Invalid Video signal input	▲ Port is input
Video Out Status	No output signal	Valid Video signal	Test Pattern active	Invalid Video signal on input, no output	▼ Port is output

### Inputs

<b>SDI-Video</b>	75 Ω SD/HD/3G Serial Digital with embedded Audio (4 groups)
Input Standards	1.5 Gbps HD-SDI SMPTE292M, 3 Gbps 3G-SDI SMPTE424M/425M Level A – mapping structure 1, SMPTE425M Level B 270 Mbps SD-SDI SMPTE259M, DVB-ASI SMPTE259M/EN50083
Cable Equalization	> 230m @ 1,5Gbps, > 140m @ 3Gbps, >250m @ 270Mbps (Belden 1694A)

### Outputs

<b>SDI-Video</b>	75 Ω SD/HD/3G Serial Digital with embedded Audio (4 groups)
Output Standards	1.5 Gbps HD-SDI SMPTE292M, 3 Gbps 3G-SDI SMPTE424M/425M Level A – mapping structure 1, SMPTE425M Level B 270 Mbps SD-SDI SMPTE259M, DVB-ASI SMPTE259M/EN50083

### Conversion Table PAL

Input	Output												
	SD 625	720 p60	720 p50	720 p30	720 p25	720 p24	1080 i60	1080 i50	1080 p60	1080 p50	1080 p30	1080 p25	1080 p24
SD625	X		X					X	X				
720p60		X					X	X					
720p50	X		X					X	X				
720p30				X						X			
720p25					X						X		
720p24						X							X
1080i60		X					X	X					
1080i50	X		X					X	X				
1080p60		X					X	X					
1080p50	X		X						X				
1080p30				X						X			
1080p25					X						X		
1080p24						X							X

### Conversion Table NTSC

Input	Output							
	SD 525	720 p59	720 p29	720 p23	1080 i59	1080 p59	1080 p29	1080 p23
SD525	X	X			X	X		
720p59	X	X			X	X		
720p29			X				X	
720p23				X				X
1080i59	X	X			X	X		
1080p59	X	X			X	X		
1080p29			X				X	
1080p23				X				X

### Quadsplit

Input Standards	525i 59.94 Hz / 625i 50 Hz	720p 60 Hz / 59.94 Hz / 50 Hz / 30 Hz / 29.97 Hz / 25 Hz / 24 Hz / 23.97 Hz	1080i 60 Hz / 59.94 Hz / 50 Hz	1080p 60 Hz / 59.94 Hz / 50 Hz / 30 Hz / 29.97 Hz / 25 Hz / 24 Hz / 23.97 Hz
Output Standards	-	-	1080i 60 Hz / 59.94 Hz / 50 Hz	1080p 60 Hz / 59.94 Hz / 50 Hz
Level Meters	-40 dbFs to 0 dbFs			

### System Transport Latencies

Video/Audio Transport Delay	Min. 500 μs, Max. 1 Frame + 150 μs (depending on system synchronisation setup)
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### Overall

Environmental Temperature	-5 °C to +40 °C (Non-condensing)
Supply Voltage	12 VDC
Power Consumption	35 W
Dimensions (w×h×d)	132 mm × 20 mm × 318 mm
Weight	675 g