

Newbridge ND1100 Series HD-SDI Repeaters are a HD SDI repeater for transmission distance extension. Supporting 14 HD formats as SMPTE-292M (1.485Gb/s, 1.485/1.001Gbps), the SD-1645 re-clocks the input signal and distributes two channels. The transmission distance is easily extended 300ft per each box.

Many remote demands have been met by this great tool for needs in very remote locations or event transmissions. When you see this great tool you will be amazed by the solution it will provide to your long transmission needs. Extend HD CCTV links up to 1.0km with power over cable and camera control link over single coax cable. Each unit receives a HD-CCTV signal that may be attenuated by up to 200m of coax cable.

ND1100 Series HD-SDI Repeaters



Features

The repeater contains three critical components to correct and then retransmit the signal:

- Adaptive Equalizer to return the signal to its original amplitude and modulation.
- Reclocker to resynchronize the signal—bringing it back to its original condition.
- Cable Driver to retransmit the signal with its original characteristics restored.

Furthermore, the repeater design allows for two unique benefits:

- Power can be transmitted from the recorder side to the camera over the coax cable.
- Up to 6 repeaters may be powered from the coax cable; if one or two repeaters are used, the power may also be adequate to power the camera.
- A control signal (RS485) can be transmitted from the recorder side to the camera over the coax cable. Simultaneous signal transmission, camera control and power over a single cable, allowing full re-use of coax infrastructure.

Specifications

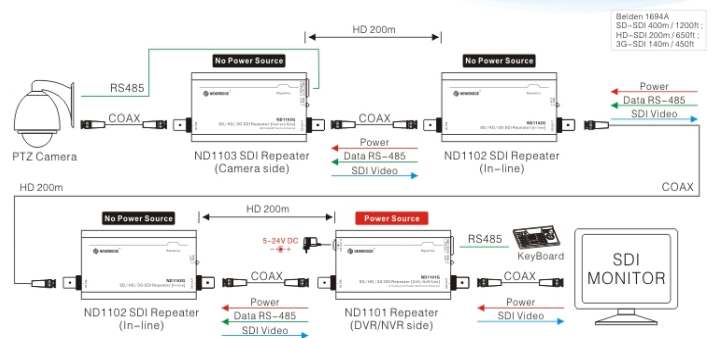
Technical Specifications:

HD-SDI Interface	Connectors	BNC
	Cable Impedance	75Ω
	Connector/coax Return Loss	Return
	Data Throughput	270Mbps, 1.485Gbps, 2.97Gbps
RS485 Interface	Connector (Head End)	Plug-in Terminal Block
	Pitch/ Poles	3.81mm/3P
	Rated Voltage/Current	300V/8A
Power Supply Input (Head End input)	Power	9-24V, plus any concatenated repeaters
	DC Feed via Coax	Min 8V DC
Environmental	Operating Temperature	0°C to 50°C
	Relative humidity	Up to 85% non-condensing
	Storage Temperature	-20°C to 70°C

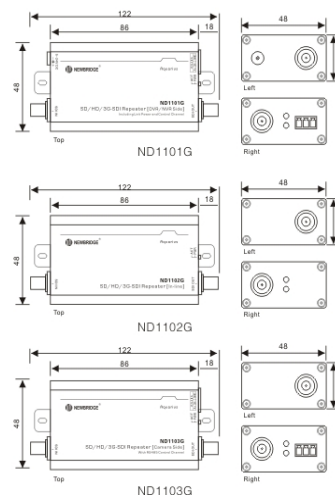
Technical Specifications:

Performance by coax type	Max coax length for error free operation@1.5Gbps	Cable/Power Budget	
		Max # Repeaters (total length)	DC power after 2 repeaters
RG6 Sample 1 (16dB/100m)(Belden 1694A)	200 meters / 640 feet	5 (1km)	6W
RG6 Sample 2 (16dB/100m)(Carol Brand)	200 meters / 640 feet	3 (1km)	1.8W
5C-HFBT Sample (16dB/100m)(Amphenol)	200 meters / 640 feet	5 (1km)	6W
RG59 Sample (23dB/100m)	140 meters / 450 feet	5 (700m)	6.5W
3C-2V Sample 1 (41dB/100m)	78 meters / 325 feet	5 (390m)	6.5W
RG11 Sample (10dB/100m) (CommCoope F1160BVV)	330 meters / 1050 feet	4 (1.3km)	4W

Application Diagram



Dimensions



Order Information

Part No	Description of product	Unit
ND1101G	HD-SDI Repeater (nearest DVR/NVR, with AC Adaptor)	pcs
ND1102G	HD-SDI Repeater	pcs
ND1103G	HD-SDI Repeater(camera end)	pcs