

Comparison STL Receivers

With 40m Celflex ½” coax between antenna & receiver. (3.6dB/870MHz, 5.6dB/1500MHz).
For STAR870 40m SAT66 coax (loss=6dB), for STAR1500 ME105 sat coax (diameter 6.3mm), filter/LNA at the antenna.

Device	Sensitivity for 60dB S/N mono (dBuV)	Sensitivity for 60dB S/N stereo (dBuV)	THD (%)	MPX flatness (+- dB)	Large signal mono S/N (dB)	Dissipated power (W)	Image rejection (> dB)	19” rack units
STAR1500	12.3	34	.1	.1	70/75	6	68	1
STAR870	12.8	35.3	.1	.05	77	6	90	1
DBelectronica KV/GHz	>23.6	-	.2	-	-	24	-	2
CTE RX11 (870)	27.1	47.1	.1	.2	70/78	30	60	3
CTE MR/2 (1500)	29.1	49.1	.1	.2	70/78	30	60	3
RVR RXRL-NV2 (1500)	25.6	53.6	.2	.43	65 / 72.5 (>400Hz)	23	90	2
Elenos ELR100-A (measured) (870)	20.6	43.6	.1	.2	74	+20	60	2
SIEL RTX18	20.6	43.6	.1	.1	70/76	14	60	2

Without coax loss between antenna and receiver:

Device	Sensitivity for 60dB S/N mono (dBuV)	Sensitivity for 60dB S/N stereo (dBuV)	THD (%)	MPX flatness (+- dB)	Large signal mono S/N (dB)	Dissipated power (W)	Image rejection (> dB)	19” rack units
STAR1500	11.7	34	.1	.1	70/75	6	68	1
STAR870	12.3	35	.1	.05	77	6	90	1
DBelectronica KV/GHz	>20	-	.2	-	-	24	-	2
CTE RX11 (870)	23.5	43.5	.1	.2	70/78	30	60	3
CTE MR/2 (1500)	23.5	43.5	.1	.2	70/78	30	60	3
RVR RXRL-NV2 (measured) (1500)	26	50	.2	.43	65 / 72.5 (>400Hz)	23	90	2
Elenos ELR100-A (measured) (870)	17	40	.1	.2	74	+20	60	2
SIEL RTX18	17	40	.1	.1	70/76	14	60	2

Comparison STL Transmitters

Device	THD (%)	MPX flatness (+- dB)	Large signal mono S/N (dB)	LF MPX -1dB (Hz)	Power consumption (W)	Cooling	Harmonic suppression dBc	Power stabilisation	19” rack units
STAT1500	.05	.1	74	0.2	8	Static	63	yes	1
DBelectronica KE/G	.1	.25	72	15	25	Blower	63	-	2
RVR PTRL-NV/2	.1	.5	65	20	47	Blower	55	no	2
CTE TXL/MTL-2W	.03	.1	79	20	22	Blower	60	yes	3
Elenos ELR100-A (measured) (870)	.07	.1	73	-	44	Blower	50	yes	3