STRIDER STL
STUDIO–TRANSMITTER LINK
500-2500MHz

SinteckNext
RADIO EXPERTS

Clear Sound
★★★★★
Max.Quality

- RF Output Power Adjustable Up To 10W
- Dual Cavity Filter in RX, More Selectivity
- Easily Configurable
- Triple Conversion (70MHz, 10.7MHz and 700kHz) and Digital Demodulator
- Stereo Demodulated Outputs in RX Side
- Stereo Generator, Digital 15KHz Filter and Audio Processor Optional Cards

Compared to the best STL linking equipment currently available, Strider STL is a complete and unrestricted radio link system. It connects the radio studio to the transmitter in a transparent and reliable way, using this powerful system manufactured by Sinteck Next. It is the only product on the market featuring a digital demodulator that delivers low harmonic distortion, an integrated standard stereo demodulator, and the option of transmission with a stereo generator, 15 kHz digital filter, and dual-band audio processor, enabled through optional plug-in cards.

Strider Link STL is an RF-based audio link system, ideal for broadcasters that need to connect the studio to the transmitter site or to transmit any type of live event. The same equipment can be used in AM or FM broadcast stations.

The modern, high-precision VCO used in Strider STL ensures exceptional audio quality, with very low distortion levels (< 0.2%), providing greater presence and clarity in transmission. The system can be powered from 110/220 VAC mains or 12 V automotive batteries, ensuring operational flexibility. It features balanced XLR inputs and outputs, two MPX inputs - one baseband and one SCA - making it ideal for connection to audio multiprocessors and RDS encoders (FM applications).

The receiver provides one MPX output, one balanced mono XLR output with 12 kHz digital filtering (ideal for connection to AM transmitters), and two balanced demodulated stereo XLR outputs.

The Strider STL transmitter delivers 10 W of digitally adjustable output power, while the receiver incorporates dual cavity filters, providing superior selectivity and sensitivity. The system features triple conversion architecture (three intermediate frequencies: 70 MHz, 10.7 MHz, and 700 kHz, followed by digital demodulation), enabling reliable links where other STL systems fail. Long-distance links can be easily established, provided that adequate line-of-sight conditions are available.

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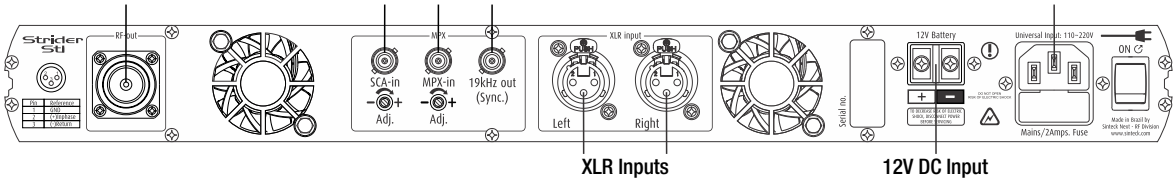
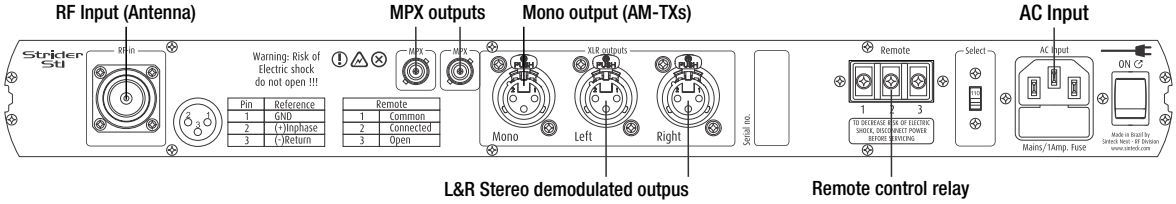
TRIPLE CONVERSION - DIGITAL DEMODULATOR

Capacitive Touch Keyboard



Graphic OLED Monitor



TECHNICAL FEATURES STRIDER STL 950MHz (TRANSMITTER)

General:	Direct FM
	Sinthesized frequency from 937 to 960MHz
	Channels: 25kHz spacing
	High-stability PLL, crystal referenced
RF output power:	10W, adjustable from 0W
RF output connector:	N female, other under request
FM modulation at 100%:	+/- 75kHz (180K F3E Mono operation)
	+/- 75kHz (256K F3E Stereo operation)
	+/- 40kHz (Mono USA)
	+/- 25kHz (Mono Brasil)
Frequency stability:	+/- 5ppm or better
Harmonic attenuation:	> 70dB
Modulation capacity:	Full support for Mono, Stereo, and SCA subcarriers
AC mains:	85~265V Universal full-range, 47-63Hz, 48W consumption
DC:	12V for mobile operation (min. level 10.8V - max. 14.0V)
Dimensions:	483mm wide, 44.45mm (1RU) height, 150mm (5.90") depth 3.25kg transmitter/receiver, 6.50kg both
Modulation inputs:	Composite: 0dB nominal to +/- 75kHz carrier deviation @1kHz via MPX input
	Frequency range: 30~200kHz (BNC connector)
	Mono: 0dBm nom. to +/- 75kHz carrier deviation @1kHz (internal selection to -10 or +6dBm)
	XLR connectors: electronic balanced 600 ohm Frequency range 30Hz~20kHz
	XLR mono input: «LEFT» connector - Internally configured to 50uS or 75uS preemphasis
	SCA input: 0dBm nom. to +/- 75kHz carrier deviation Frequency range 50~200kHz

Audio processor:	Stereo active with «bass-bost» circuit 3dB @ 80Hz
	Dual-band stereo crossover 6dB «in-phase correction»: 1st filter: 30Hz to 200Hz 2nd filter: 200Hz to 15kHz Compressor/limiter section attack/release times: 1st way: 10ms, 1s 2nd way: 4ms, 500ms
	Max. compression level 20:1dB
Stereo generator:	Pre-emphasis selection via jumper: 50 µs or 75 µs
	Frequency range 20~15kHz (THD+N < 0.1%) plus digital 15kHz card installed
	Stereo separation better than 55dB @ 1kHz (tip. 60dB)
	Pilot frequency 19kHz +/- 1Hz stability (output fixed 1Vpp - BNC con.)

STRIDER STL RX

RF input connector:	N female, other under request
Sensitivity:	Composite: 100 µV or less required for 65 dB SNR, L/R channels with de-emphasis, demodulated.
Mono:	Mono: 20µV or less required for 65 dB SNR
Selectivity in MPX mode:	3dB IF bandwidth: +/- 125kHz 80dB IF bandwidth: +/- 1,2MHz
Selectivity in Mono mode:	3dB IF bandwidth: +/- 90kHz 80dB IF Bandwidth +/- 900kHz
MPX output level (max):	4Vpp @ 600 Ohms, adjustable, unbalanced Frequency range 30Hz~80kHz - BNC
Mono output level (max):	0dBm @ @ 600 Ohms, fixed, balanced Frequency range 30Hz~12kHz - XLR
L/R output level (max):	0dBm @ @ 600 Ohms, fixed, balanced Frequency range 30Hz~15kHz - XLR Typ. stereo separation 40dB
Power consumption:	15W max. 95~130V and 190~245V (AC main selectable via switch rear panel) 50/60Hz
Dimensions:	483mm wide, 44.45mm (1RU) height, 150mm (5.90") depth

Sinteck Next in more than 30 countries

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