RPU & STL Studio Transmitter Links

Strider RPU Link Series 130-500MHz 5-30MHz bands

- * Frequency Agile, + 100 Channels
- * 10W Adjustable RF Output Power
- * Stereo Generator Card Optional
- * Digital 15kHz LPF Card Optional
- * Audio Processor Card Optional
- * Hi-Fi VCO, More Punch and Brilliance
- * High Efficiency, Swiched Power Supply
- * RPU or STL uses
- * 12V Battery Connection

Transmit your events, parties and much more with the new Strider Link Series from Sinteck, the only STL with stereo demodulated outputs and additional Cards: stereo generator, digital 15KHz low pass filter and dual band audio processor

The Strider Link Series is a complete system for who needs to transmit events, parties or using as STL system. The Hi-Fi VCO present in the Strider Link guarantees an incredible audio quality - punch and clarity. The system can be connected to 110/220V AC line or 12V DC from a battery. XLR connectors to Left and Right audio signal, 2 MPX inputs: Baseband and SCA, a 19kHz tone sync. Output for RDS encoders - all of these are present in the Strider Transmitter Link. The receiver possesses a MPX Baseband output and 3 XLR connectors: 1 Mono output, 1 Left signal output (demodulated) and 1 Right signal output (demodulated).

The transmitter offers 10W adjustable power and the receiver has 2 cavity filters with high gain RF cells.

What is the Strider Link? How about its benefits?

The Strider Link Series is a complete radio link system, transparent and without limitations. When someone wants to transmit a party, events or any other activity outside the radiostation, it must be implemented a link system.

Strider Link Series, developed to cover these issues. Levels of quality, also found in high cost traditional marks devices, now it is overcome by the Strider Link from Sinteck. A perfect transmission, without noises and good quality is possible now thanks the Strider Link.

The system has an adjustable transmitter of 10W, which the client can adjust the RF output power from 0 up to 10W. Forwarded and reflected power, voltage in the final RF stage, total current, contrast adjustment, channel change and other parameters are shown on the LCD panel. The transmitter has XLR inputs (Left, Right and Mono) 1 MPX input (with multi-turn trimmer for adjust), 1 SCA input (with multi-turn trimmer for adjust) and a 19kHz output for RDS coders.

It is also possible according the client's necessity, the internal connection of AddOn Cards, that implements the equipment version: stereo generator Card, digital low pass filter Card and audio processor dual-band Card.

The incredible RF covering of the Strider Link (85km) is possible due to the fact the receiver has 2 cavity filters with LNA amplifier of high gain and low noise.

The receiver LCD display show RF input visualization, digital RF output level adjustment and many other parameters can be visualized and configured. In the receiver there is a stereo demodulator and L&R output and a MPX (BNC) output. The system can be used as link unit to studio/transmitter (STL) and also as mobile unit of external reportage (DC 12V battery operation) The frequency changing and other setups are made through the keys located on the front panel, being this very simple and very quick. Such as the transmitter as the receiver are mounted in a cabinet of 19" in 1RU (44,45mm) with 125mm deep. We introduce an equipment with very small size and great technology.

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STRIDER
Audio processor & Stereo Generator Cards

Developed and manufactured by
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Making the difference

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Strider Link LCD, some configurations...

Strider Link, front & rear pannels

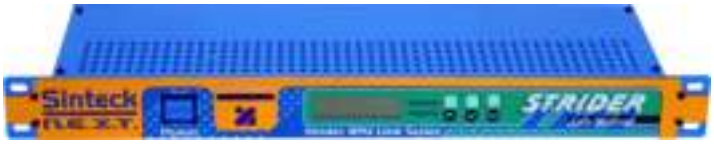
Strider Link Transmitter: Painel frontal

Strider Link Transmitter: Painel traseiro

Strider Link Receiver: Painel frontal

Strider Link Receiver: Painel traseiro

Strider Link Front Panel Overview:



Strider Link Visual-cabinet Overview:

Strider Link Rear Panel Overview:

Strider Link Internal Overview:

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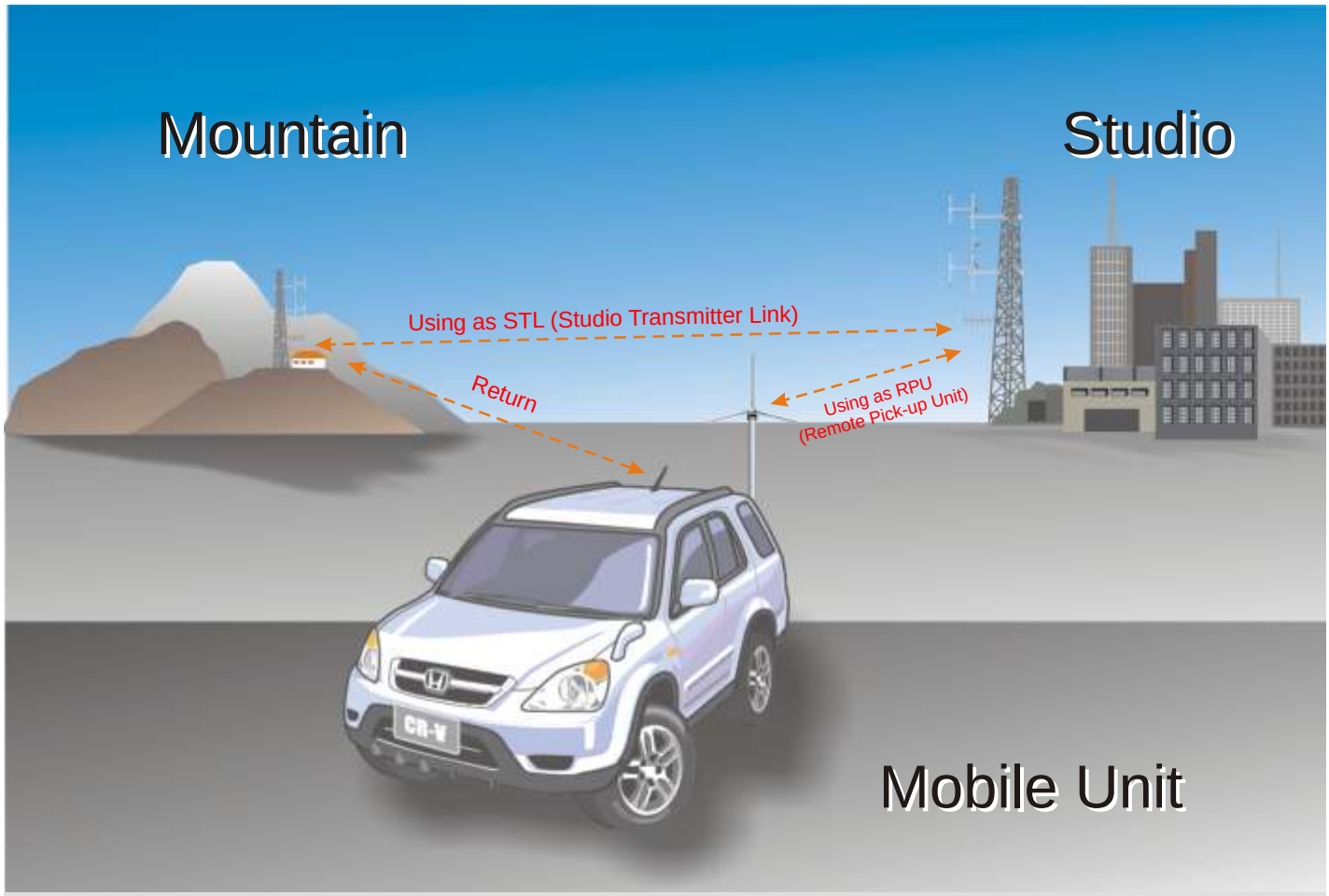
Strider Link Series, using configurations



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AddOn Cards: turn your Strider Link still more powerful...

Introduction to the CARDS

The Strider Transmitter Link is equipped opcionally with cards that it is installed on the transmitter mainboard.

The user has the option to buy the system without any AddOn card, and he has the option to buy cards to install later.

To install the addon cards, user can do it easily, it does not require any technical knowledge. Just see the requirements and the correct position to install.

For additional information, the user can contact the dealer or distributor, which has enough knowledge to do this work or support.

We advise the user to buy these cards on the distributor, and the distributor install the addon card There are 3 different cards that it can be placed on the Strider Transmitter Link, they are:

1 - Dual-band Audio Processor Card
2 - Soft-clipper Digital 15kHz Low Pass Filter Card
3 - Stereo Generator Card

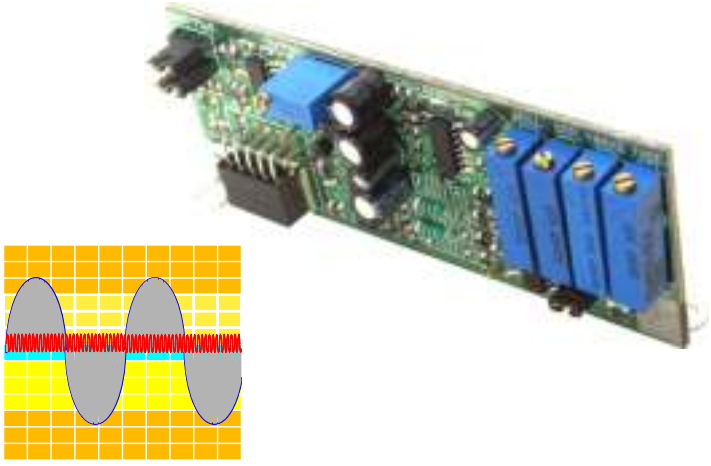
Each one of these cards will be explained individually in this brochure.

1) Stereo Generator CARD

The Stereo Generator AddOn Card consists in an AMDSB/SC stereo generator of excellent audio separation.

Also, the user can choose if the transmittion will be in stereo or mono. The parameters of this card can be view in device LCD display.

The following illustration show the Stereo Generator AddOn Card:



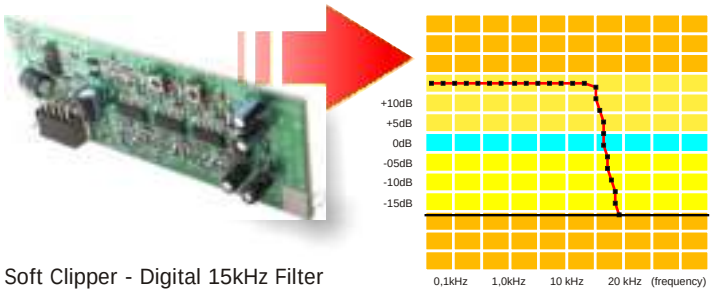
Stereo waveform: when is connected only one audio channel (Left or Right) with 1kHz from a signal generator, this wave form is appreciated, note than the red line is the 19kHz pilot tone.

2) Soft-Clipper & Digital 15kHz Low Pass Filter CARD

This Digital Low Pass Filter addon card is a digital eleptic filter of 8th. order.

The digital 15kHz filter card is indicated to transmit programming that the audio frequency does't pass up to 15kHz. We recommend to install this card when stereo generator card is present, since high frequencies is not important to transmit in this case.

The following illustration shows the Soft-clipper Digital 15kHz Low Pass Filter AddOn Card:

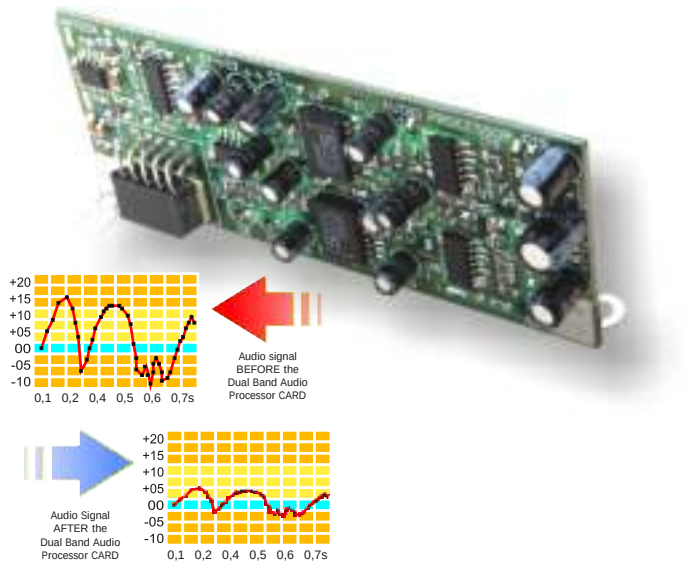


Soft Clipper - Digital 15kHz Filter

3) Dual Band Audio Processor CARD

The Audio Processor AddOn Card is an audio processor dual-band, that processes independently low and high frequencies, keeping high the dynamics of the transmission. This processor can be enabled or disabled in the device setup (front panel). The audio processed is limited and it won't produce over-modulation in the transmitter, in addition the sound quality will be exceptional.

The following illustration shows the Audio Processor Card pc board:



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Technical Features - Strider Transmitter Link - Full Version (All CARDS Installed)

Type:	Solid State
	Direct FM
	Frequency Synthesized
	Crystal Referenced
RF power output	8W tipically, 10W max, adjustable
RF output connector	Type N or UHF under request
Deviation: (100% modulation)	+/- 75kHz
	+/- 50kHz (composite)
	+/- 40kHz (monaural)
	+/- 25kHz (RPU - Brasil only)
Frequency Stability	+/- 5ppm or better (1 or 2 ppm under request)
Harmonic emission	More than 60dB below carrier level
Modulation capability	Mono operation and Composite main subcarrier
Power Source	85 to 265VAC 47-63Hz switched power supply system, universal full-range. 48W
	12V-DC input socket for mobile operation (battery source: minimum 10,8V maximum 14V)
Dimensions	1 rack unit (44,45mm) high 19" (483mm) wide 5" (125mm) deep
	Shipping Weight: 3,5kg
Modulation inputs:	Composite: 0dBm nominal for +/- 75kHz deviation @ 1kHz adjustable - MPX input BNC connector 10kOhms unbalanced.
	Frequency range: 30Hz to 200kHz 1 BNC connector
	Monaural: 0dBm nominal for +/- 75kHz deviation @ 1kHz (internal jumpers for -10dBm or +6dmB)
	XLR connector - balanced electronic floating - 600 Ohm - Frequency range: 30Hz to 20kHz
	Mono input is made by the LEFT XLR connector (internal jumper to 50us or 75us pre-emphasis)
	SCA input: 0dBm nominal for +/- 75kHz deviation at 57kHz adjustable. Impedance 10kOhm. BNC Frequency Range: 50kHz to 200kHz
Audio Processor Dual-Band card:	Stereo active bass boost circuit 3dB @ 80Hz
	Stereo crossover 6dB in-phase correction: *Low pass: 30Hz to 200Hz - 1st way *High pass: 200Hz to 15kHz - 2nd way
	Stereo compressor and limiter section of the card: *1st way: attack time 10ms, release time 1s *2nd way: attack time 4ms, release time 500ms
	Maximum compression: 20:1dB
Stereo Generator Card:	Jumper selection for pre-emphasis: 50us or 75us
	Frequency Response: 20Hz to 15kHz (THD+N<0,1%) (When installed the digital 15kHz low pass filter)
	Stereo Separation: Better than 60dB @ 1kHz
	Pilot tone frequency 19kHz +/- 1Hz (1Vpp output at the BCN)

Specifications subject to change without notice

Technical Features - Strider Receiver Link

RF input connector	50 Ohms type N Femane, UHF female on request
Sensitivity	Composite: 100uV or less required for 65dB SNR, left or right channel de-emphasized, demodulated.
Monaural	20uV or less required for 65dB SNR
Composite selectivity	3dB IF bandwidth: +/- 125kHz
	80dB IF bandwidth: +/- 1,2MHz
Monaural selectivity	3dB IF bandwidth: +/- 90kHz
	80dB IF bandwidth: +/- 1,2MHz
Modulation output	Composite: 4Vpp @ 600 Ohms, adjustable unbalanced Frequency range: 30Hz to 80kHz (1 BNC connector)
Monaural output	0dBm @ 600 Ohms, balanced Frequency range: 30Hz to 15kHz (1 XLR connector)
Stereo decoder outputs	0dBm @ 600 Ohms, balanced Frequency range (Left or Right): 30Hz to 15kHz (2 XLR connector, 1 Left Signal out, 1 Right Signal out) Stereo Demodulated separation: 40dB or better
Power Source	100/120/200/240VAC 50 or 60Hz 15W max.
Dimensions	1 rack unit (44,45mm) 483mm wide 125mm deep
Shipping Weight	3,5kg domestic

Sinteck Next RF Systems

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Please visit www.sinteck.com and find a Sinteck dealer near you!

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