



Pro Chip

ChipX TSB development history

Track Side Box (TSB)

Our first TSB for Active Sports Timing was developed to meet a strongly growing demand for a portable solution for intermediate timing points in this market. Both organizations and competitors enjoy additional timing data being available with less hassle.



Image 1: Overview Track Side Box

Track Side Unit (TSU), 1st generation

This TSU (image 2) has been developed to fulfil the specific requirements of our motor sport customers. The TSU offers a single unit solution for multi-loop identification and timing. Customers like NASCAR, IRL and CART are using this TSU of which around 80 units have been delivered since beginning 2004. This product has proven itself as a plug-and-play, lightweight, weatherproof product offering fast and convenient setup of intermediate timing points.

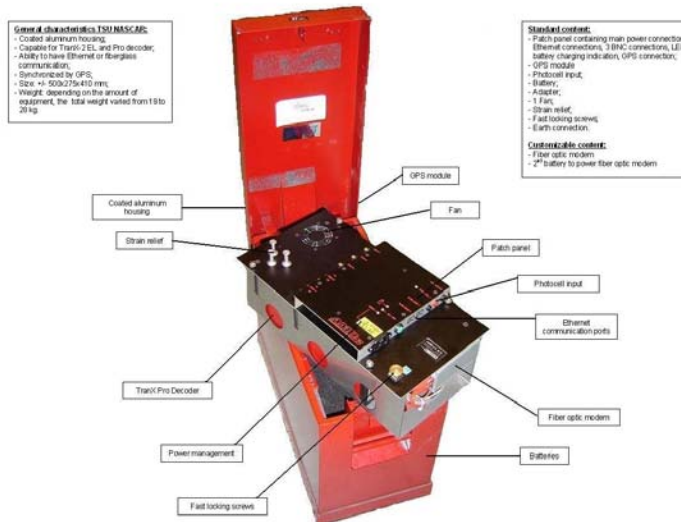


Image 2: Overview Track Side Unit, 1st generation



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Track Side Unit (TSU), 2nd generation:

Based on customer feedback and experience with track side boxes in active sports have been able to improve the concept of our track side box solution. With this 2nd generation TSU you will benefit from:

- One lightweight, shock and weather resistant case that contains up to three GPS synchronized decoders with several communication possibilities and an internal activator.
- Faster, safer and more convenient set up of timing lines.



Image 3 / 4: the new Track Side Box: Overview / Inside view

Patch panel

On the patch panel all necessary connections will be found; the main power connection to power the system (and charge the batteries), Ethernet port to connect to the Controller, 3 BNC connections to connect up to 3 detection loops. Cables can go into the TSU with the lid closed.

Cooling fans

Within this TSU 2 fans have been integrated to prevent overheating of the equipment. The internal layout of the TSB ensure continuous airflow to pass every single component.

Rack mounted devices

The ChipX decoder and controller placed inside the TSB are delivered as rack mounted devices. This makes it easy to add or remove decoders.

TSB specifications

Track Side Box	: Stainless steel weatherproof case
Dimensions (w x l x h)	: 190x370x275mm / 7.5"x14.6" x10.8"
Weight (including controller and battery)	: 11.7kg / 24.3lb
Temperature range	: 0-50 C / 32-122 F
Humidity range	: 10% to 90% relative
Power supply input	: 100-240VAC 50/60Hz 1.5A
Battery	: Sealed Lead Acid 12V / 12Ah
Battery life TSB in operation with 1 detection point	: At least 10 hours
Full Charge	: 8 hours

Controller

Each Track Side Box includes a Controller, which works as communication gateway to the decoders

Some of the features include:

- Power Management decoders, and communication for up to 3 decoders
- Battery charger, full charge in less then 8 hours
- PCMCIA slot that enables wireless communication via GPRS, WIFI etc.
- USB-A port for support purposes;
- Display indication wide variety of information, such as battery condition, GPS synchronization
- Amplified headphone/speaker output with volume control (one speaker for all decoders, different tone selection possible on each decoder).