

TBS12B LoRa WAN to SDI-12 Bridge

TBS12B

The TBS12B is one of the available variants of the TBS12 LoRa WAN to SDI-12 Adaptor. It allows a range of SDI-12 compatible sensors to be connected to a LoRa WAN network.

LoRa Connectivity

LoRa WAN networks are being rolled out in both open (public) and closed (private) formats and offer an alternative to traditional cellular or mobile phone based telemetry systems. Whilst cellular systems are designed to cope with the high data rates demanded by applications such as video streaming, LoRa WAN has been designed with low data rates and minimal power

Why SDI-12

Whilst many vendors are offering integrated LoraWAN sensors, this approach neglects the wealth of knowledge and investment in existing sensors. And in the environmental and agriculture markets, the dominant sensor protocol is SDI-12.

SDI-12 is simple to implement, flexible and robust. All commands and responses are sent in plain text, making configuration and debugging a breeze.

SDI-12 flexible addressing scheme means it is also easy to

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The TBS12B is built around a powder coated aluminium enclosure. Power comes from a set of 3 off C sized alkaline batteries - that gives you economical, long term operation. A breather vent on the case prevents moisture build up. The LoraWAN antenna fits on to a TNC socket on the top of the enclosure and the sensors connect via a waterproof connector on the base.

To configure the TBS12B, simply load Tekbox's TBS12 GUI program. This program gives you access to all of the LoraWAN parameters including connection type, security keys, device ID and transmission rate. On the SDI-12 side you can add the SDI-12 address and commands for each of the connected sensors. Diagnostic information can be sent with every reading or at a lower rate.

For trouble shooting, the GUI allows you to send comands direct to either the LoraWAN modem or the SDI-12 sensors. The former is useful if you wish to quickly change any of the LoraWAN parameters or manually establish a communications session. The latter allows you to configure and test the attached SDI-12 sensors.

Should you require more features than can be provided in the TBS12, then you should consider the TBSL1.

Ordering Details

TBS12B TBS12 LoraWAN interface for SDI-12 sensors with dry cell batteries

TBS12S TBSL1 Universal LoraWAN to SDI-12 Bridge with on board 2 W solar



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Telemetry Over Internet Protocol