

iU891A-XL LOW COST AND HIGH RANGE

iU891A-XL is a low cost and high output power USB-adapter supporting LoRa®, LoRaWAN® and wireless M-Bus.

With an integrated +22 dBm power amplifier and asensitivity of -149 dBm, a sensational link budget of approx. 170 dB can be reached. With this, ranges well beyond 15 km can be achieved.

The iU891A-XL supports the wireless M-Bus modes S, C, T and C/T with packet formats A and B as well

as the OMS security modes 5 and 7. In addition, the sophisticated IMST ProLink protocol stack is also available. It combines compliant LoRaWAN functions and proprietary LoRa functions within one stack. This makes the iU891A-XL an ideal solution for numerous applications such as meter reading, wireless M-Bus gateway expansion, LPWAN and IoT sensors, as well as home-, building- and industrial-automation.







NEW FEATURES

- Frequency 863 870 MHz
- Small footprint
- 32-Bit MCU ARM® Cortex® M4
- Unique device identifier 64 bit UID
- 256 Kbyte Flash
- 64 Kbyte RAM
- 128/256 bit AES hardware encryption
- True random number generator (RNG)

- 32 MHz MCU TCXO
- Integrated +22 dBm power amplifier
- Max. sensitivity down to -149 dBm
- Modulations ĆSS¹, LR FHSS², (G)FSK
- Spreading factors 5 to 12
- Bandwidth LoRa 7.6 500 kHz
- High range > 15 km
- 1: Chirp Spread Spectrum
 2: Long Range Frequency Hopping Spread Spectrum





Dimensions in mm

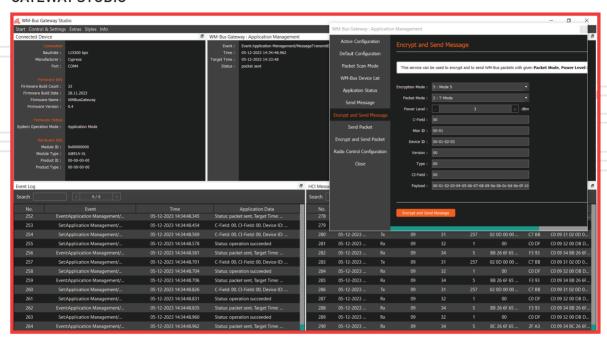


Dimensions in mm

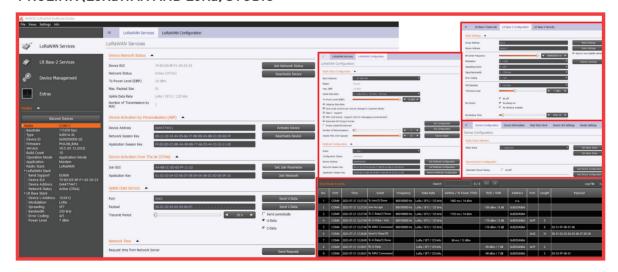




GATEWAY STUDIO



PROLINK (LoRaWAN AND LoRa) STUDIO



HARDWARE	•	PART NUMBER	DESCRIPTION
iU891A-XL	LoRaWAN	404927	iU891A-XL LoRaWAN ProLink firmware
	Wireless M-Bus	404926	iU891A-XL wireless M-Bus firmware

IMST GmbH

Carl-Friedrich-Gauss-Str. 2-4 47475 Kamp-Lintfort Germany T +49-2842-981-308 F +49-2842-981-199

E sales@imst.com

wireless-solutions.com shop.imst.de

