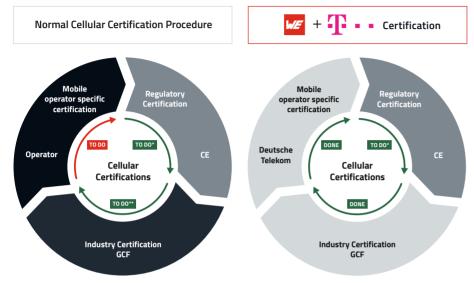
ADRASTEA-I

CELLULAR CERTIFICATIONS



* To do on device level, Adrastea-I offers CE declaration

** To do on device level, Adrastea-I offers GCF certification

CREATING IDEAS – APPLICATIONS EXAMPLES



LIVESTOCK MONITORING



TIME SYNCHRONIZATION



Get inspired by more application ideas: www.we-online.com/wcs-creating-ideas

CONTAINER TRACKING



PEDESTRIANS AND TRAFFIC SAFETY

WURTH ELEKTRONIK MORE THAN YOU EXPECT

YOUR KEY TO CELLULAR TECHNOLOGY.



Despite its compact size, the module has integrated GNSS, integrated ARM Cortex M4 and 1MB Flash reserved for user application development. The module is based on the high-performance Sony Altair ALT1250 chipset.

The Adrastea-I module, certified by Deutsche Telekom, enables rapid integration into end products without additional industry-specific certification (GCF) or operator approval. Provided that a Deutsche Telekom IOT connectivity (SIM card) is used. For all other operators the module offers the industry-specific certification (GCF) already.

www.we-online.com/gocellular



Long range / worldwide coverage

Multi-band support

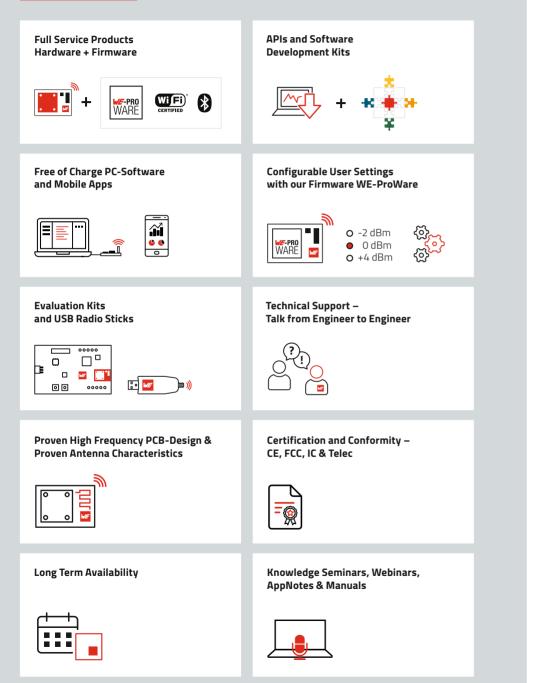
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ADDED VALUES



KEY FEATURES

SUPPORTED CELLULAR TECHNOLOGIES



Difference between LTE-M vs NB-IoT:

LTE-M and NB-IoT are two new standards of Radio Access Technology designed for Low Power Wide Area Networks (LPWAN).

Benefits of Dual Mode:

Enable international multi-regional coverage (in some regions LTE-M is not available then module will select NB-IoT and vice versa).

	Firmware updates	Indoor coverage	Remote control devices	Suitability for moving devices	Possibility to grow with new use cases
LTE-M	•••	•••	•••	•••	•••
NB-IoT	•	•••	••	•	•

INTEGRATED MCU (EXCLUSIVELY FOR USER APPLICATION'S FIRMWARE)

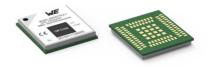
ARM® Cortex® M4	1 MB Flash	256 KB RAM	Benefits of Integrated MCU: ✓ Cost (external micro controller is not required) ✓ Size ✓ Power consumption
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EMBEDDED GNSS

GPS	GLONASS
	S.

Supports GPS and GLONASS Satellite Systems. This allows GNSS positioning for asset management applications where infrequent position updates are required.

SMALL FORM FACTOR



Compact 13.4 mm x14.6 mm x 1.85 mm design allows the module to fit in small-size applications.

MULTI-BAND SUPPORT

LTE-Cat.M Supported Bands: B2/B3/B4/B5/B8/B12/B20/B25/B26/B28

Enables the support for international, multi-regional coverage:

LTE-Cat.NB-IoT Supported Bands: B3/B5/B8/B20/B28



Application Note about AWS Cloud Connectivity Using MQTT www.we-online.com/ANR032