

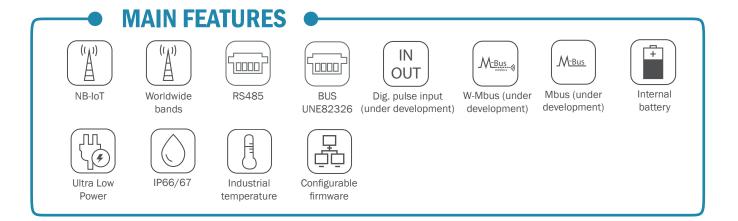


MTX-StarWater

NB-IoT industrial IoT modem for water metering

MTX-StarWater is a smart communication system to manage cold and hot water supply networks. It captures the data from the water meter boxes and, in a safe way, sends them to a management platform in the cloud (Cervello). It has several input interfaces (W-Mbus, Mbus, bus UNE82326, RS485 and digital pulse input), to ensure the compatibility of the system with the greatest possible number of periferal devices. In addition, its unique power consumption optimization system makes possible the use of batteries to power the system, with up to 10 years duration for one reading transmission per day.





Ⅰ Temperature range: -40° to +85°C
□ Dimensions: 122x120x65 mm

Preliminary Datasheet. Subject to changes | 2020/12 MTX © by MATRIX ELECTRONICA S.L.U.

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HARDWARE FEATURES

MTX-STARWATER



2G

Cat M1/Cat NB1: LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28 LTE TDD: B39 (Cat M1) EGPRS: 850/900/1800/1900MHz

Connectors

Cat M1: Max. 375Kbps (DL), Max. 375Kbps (UL)

Cat NB1: Max. 32Kbps (DL), Max. 70Kbps (UL)

EDGE: Max. 296Kbps (DL), Max. 236.8Kbps (UL) GPRS: Max. 107Kbps (DL), Max. 85.6Kbps (UL)

SMS SMS: text and PDU mode support

Interfaces

(L)) A (A) NB-IoT connectivity Internal antenna: NB-IoT, W-Mbus Internal terminal block: RS485, bus "Å Worldwide bands facco) UNE82326, digital pulse input, Mbus RS232/RS485* fooo) -Ĥ **Operating status LEDs** 1000) BUS UNE82326* ()IP66/67 enclosure Digital pulse input + Long life internal battery Ultra Low Power M-Bus W-Mbus* M-Bus Mbus*

*Depending on the model



SOFTWARE FEATURES

SIM application toolkit, 3GPP release 99

Control and TCP/IP stacks access via AT commands

Remote firmware configuration

Watchdog

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- Configurable meter reading frequency
- Configurable kind of reading frames
 - $\overset{(N)}{=}$ Configurable data sending frequency
- Compatible with Cervello Device Manager

ORDERING INFORMATION

ARWATER [NB-U-N]	199810060
ARWATER [NB-R-N]	199810067
ARWATER [NB-WM-N]	TBD
ARWATER [NB-M-N]	TBD

MTX - StarWater [Communication - Interface - Other]

•	Communication		Other	•
	NB: NB-IoT/Cat-M1, NB2: NB-IoT2/Cat-M2	۲ ۲	N: non defined	
	Interface	*		
	U: Bus UNE82326 R: RS485 WM: W-MBUs M: MBus			



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