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# 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.



### MAIN FEATURES



NB-IoT



Worldwide bands



RS485



BUS  
 UNE82326



Dig. pulse input  
 (under development)



W-Mbus (under development)



Mbus (under development)



Internal battery



Ultra Low Power



IP66/67



Industrial temperature



Configurable firmware

🌡 Temperature range: -40° to +85°C

📏 Dimensions: 122x120x65 mm

Preliminary Datasheet. Subject to changes | 2020/12

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# HARDWARE FEATURES





## MTX-STARWATER

	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
	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: text and PDU mode support

### Interfaces









-  NB-IoT connectivity
-  Worldwide bands
-  RS232/RS485\*
-  BUS UNE82326\*
-  Digital pulse input
-  Long life internal battery
-  Ultra Low Power
-  W-Mbus\*
-  Mbus\*

### Connectors

-  Internal antenna: NB-IoT, W-Mbus
-  Internal terminal block: RS485, bus UNE82326, digital pulse input, Mbus
-  Operating status LEDs
-  IP66/67 enclosure

\*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
-  Configurable meter reading frequency
-  Configurable kind of reading frames
-  Configurable data sending frequency
-  Compatible with Cervello Device Manager

## ORDERING INFORMATION

MTX-STARWATER [NB-U-N]	<b>199810060</b>
MTX-STARWATER [NB-R-N]	<b>199810067</b>
MTX-STARWATER [NB-WM-N]	<b>TBD</b>
MTX-STARWATER [NB-M-N]	<b>TBD</b>

### MTX - StarWater [ Communication - Interface - Other ]

