

MTX-StarWater

NB-IoT industrial IoT modem for water metering

MTX-StarWater is a smart communication system for the management of water supply networks. It captures the data of the water meter boxes and, in a safe way, can send them to a management platform in the cloud (Cervello).

It has several input interfaces (bus UNE82326, RS485 and digital pulse input), to ensure the compatibility of the system with the greatest possible number of water meters.

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.



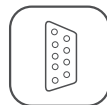
MAIN FEATURES



NB-IoT connectivity



Worldwide bands



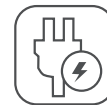
RS232/485/
BUS UNE82326



Digital pulse input



Internal battery



Ultra low power



IP66/67



LoRaWan (optional)



Industrial temperature



Firmware update



MTX-Tunnel



Cervello






🌡️ Temperature range: -40° to +85°C
📏 Dimensions: 122x120x65 mm
🐦 Weight: 400 gr

Preliminary Datasheet. Subject to changes | 2019/09
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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: 2G-Edge, LTE Cat.M
-  Worldwide bands
-  RS232/RS485
-  BUS UNE82326
-  Digital pulse input
-  Long life internal battery
-  Ultra Low Power
-  LoRaWan (optional)

Connectors

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

SOFTWARE FEATURES

-  SIM application toolkit, 3GPP release 99
-  Control and TCP/IP stacks access via AT commands
-  Remote firmware update
-  Watchdog
-  Compatible with Cervello Device Manager