

MTX-StarWater

NB-IoT industrial IoT modem for water metering

MTX-StarWater is a smart communication system for the management of 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 Stem). 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 peripheral 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/
CatM1/2G



Worldwide
bands



RS485



BUS
UNE82326



Dig. pulse input



Internal
battery



Ultra Low
Power



IP66/67



Industrial
temperature



Configurable
firmware

Strengths & Benefits

- It's NB-IoT connectivity allows very low consumption.
- Compatible with most peripheral devices.
- Power consumption optimization allows the use of primary batteries.
- 10 years of duration with one reading transmission per day.

Applications

- Management of water supply networks.
- Suitable for interior or exterior installations.

Specifications

MTX-StarWater [NB-X-X]	MTX-StarWater [NB2-X-X]
Cat M1/Cat NB1: LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B2/B28/B66/B85 LTE TDD: B39 (Cat M1) EGPRS: 850/900/1800/1900MHz	Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B2/B28/B66/B85 Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 GSM/EDGE: 850/900/1800/1900 MHz GNSS: GPS/GLONASSBeiDou/Galileo/QZSS
Cat M1: Max. 375Kbps (DL), Max. 375Kbps (UL)	Cat M1: Max. 588Kbps (DL), Max. 1119Kbps (UL)
	Cat NB2: Max. 127Kbps (DL), Max. 158.5Kbps (UL)
Cat NB1: Max. 32Kbps (DL), Max. 70Kbps (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)	EDGE: Max. 296Kbps (DL), Max. 236.8Kbps (UL) GPRS: Max. 107Kbps (DL), Max. 85.6Kbps (UL)
	VoLTE for Cat M1, CS Voice for GSM
SMS: text and PDU mode support	SMS: text and PDU mode support

Interfaces

- NB-IoT/CatM1/2G
- RS232/RS485*
- BUS UNE82326*
- Digital pulse input

*Depending on the model

Connectors

- Internal antenna: NB-IoT
- Internal terminal block: RS485, bus UNE82326, digital pulse input
- Debug port

Characteristics

- Long life internal Li-SCOC12 primary battery
- IP66/67 enclosure
- Status LEDs
- Temperature range: -40 - 85°C
- Dimensions: 122x120x65mm
- Weight: 400gr.
- Certifications: CE, FCC, PTCRB, RoHS, ISO9001

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

References

PRODUCTS

■ MTX-StarWater [NB2-U-N]	000199810066
■ MTX-StarWater [NB2-P-N]	TBD
■ MTX-StarWater [NB2-R-N]	000199810068
■ MTX-StarWater [NB-U-N]	000199810060
■ MTX-StarWater [NB-P-N]	000199810071
■ MTX-StarWater [NB-R-N]	000199810067

[Communication-Interface-Other]

NB: NBLoT/LTE cat.NB1/LTE cat.M1/2G

U: Bus UNE82326

N: non defined (default)

NB2: NB2LoT/LTE cat.NB2/LTE cat.M1/2G

P: Pulse

R: RS485

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