

# MTX-StarEnergy-F

## Industrial IoT modem with LTE/4G and RJ45 for electric metering

MTX-StarEnergy-F is an industrial modem made for electric meter boxes remote reading. It has a 32-bit ARM Cortex processor for hardware control, and a wireless communications module with 4G (LTE Cat. 1) connectivity for IoT solutions, with 3G/2G fallback.

This modem is connected to the meter box using one RS232 and one RS485 interface, available through two RJ45 and one RJ12 connector, depending on the model of the meter box to be connected. The modem also has an external SMA connector for the antenna, and access to the standard SIM card without opening the device.

The MTX-StarEnergy-F has a battery that absorbs possible current peaks due to data transmission.



### MAIN FEATURES



4G connectivity



RS232  
RS485



Lithium  
battery



DIN rail



Legacy  
communications



AT commands



Firmware  
update







Java



MTX-Tunnel



Cervello







-  Power input: 5-15VDC
-  Temperature range: -30° to +70°C
-  Dimensions: 160x100x40mm
-  Weight: 300gr

Datasheet subject to changes | 2019/9  
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## HARDWARE FEATURES





### MTX-STARENERGY-F 4G Cat.1

	LTE 5 Bands (700, 800, 900, 1800, 2100MHz), GSM/GPRS/EDGE: 2 Bands (900, 1800MHz)
	LTE Cat.1: DL 10.2Mbps, UL 5.2Mbps
	HSPA: DL 7.2Mbps, UL 5.7Mbps UMTS PS: DL 384Mbps, UL 384 Mbps, CS: DL 64Mbps, UL 64Mbps
	EDGE Class 12 data rates, DL: max. 237 kbps, UL: max. 237 kbps GPRS Class 12 data rates, DL: max. 85.6 kbps, UL: max. 85.6 kbps
	CSD data transmission up to 9.6 kbps, V.110, non-transparent
	SMS: text and PDU mode support, point-to-point MO and MT, cell broadcast







#### Interfaces

-  4G/3G/2G connectivity
-  1x RS232
-  1x RS485
-  SIM card interface 1.8V/3V
-  Lithium battery
-  4x operating status LEDs: power, coverage, connectivity, error
-  IP54
-  DIN rail & wall mounting

#### Connectors

-  1x SMA F antenna connector: 4G/3G/2G
-  2x RJ45, 1x RJ12: RS232, RS485
-  1x SIM
-  1x eSIM

## SOFTWARE FEATURES

-  SIM application toolkit, 3GPP release 99
-  Control and TCP/IP stacks access via AT commands
-  Internet services: TCP, UDP, HTTP, FTP, SMTP, POP3
-  Compatible with Cervello Device Manager
-  Remote firmware update
-  Compatible with supported controllers