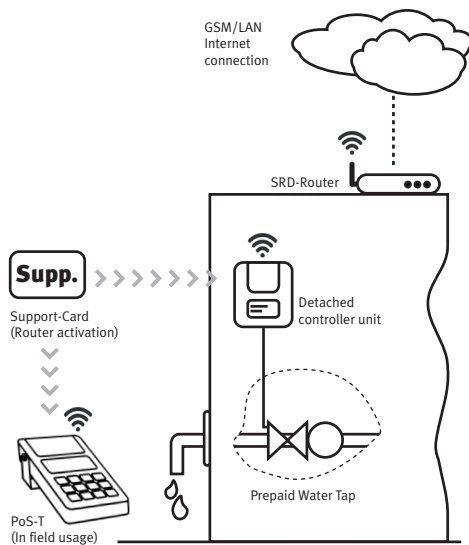




# Prepaid Meter Router

## Prepaid Meter – Router

The optional iSAtech router is obtainable in the configuration GSM/UMTS, WiFi or LAN. The communication to the Dispensing Units and the Point of Sale-Terminal is realized by 433MHz, 868MHz or 2,4GHz. With this the linking of up to 50 devices in a radius of up to 1 km is possible. The connection to the server is done via Internet and depending on configuration, mobile network, WiFi or LAN. The GSM/UMTS configuration is designed redundantly and allows the use of two different mobile network providers.



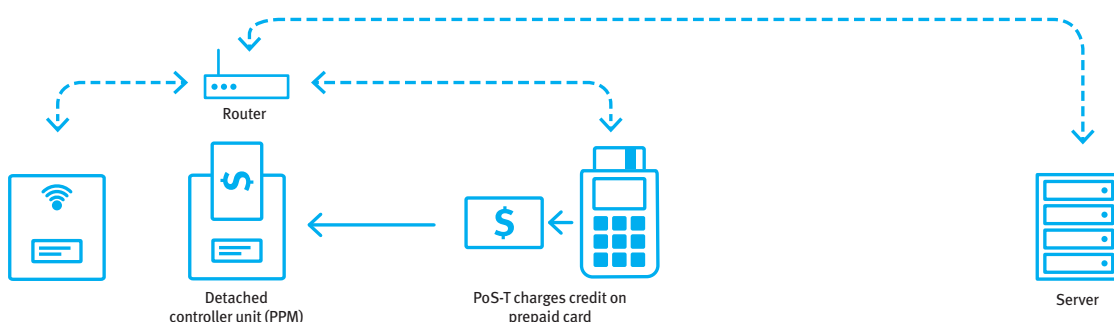
## Synchronization

The synchronization interval can be configured to the customers' needs, therefore allowing for balance between fast data transfer and cost effectiveness. The power supply is realized externally by battery or solar plant.

If a firmware update for the router is necessary it is automatically downloaded during the synchronization process and afterwards installed.

## Data transfer and provision

The router is synchronizing itself periodically with the server. The data is stored at the router and the systems in the field like the Dispensing Units and Point of Sale-Terminals retrieve the data and transfer their logs respectively.





# Prepaid Meter Router

## Technical Data

<b>Controller</b>	Powerfull Linux-ARM architecture	<b>Display</b>	LCD/LED
<b>Connection local</b>	433MHz ISM band up to 0,5 km 868 MHz ISM band up to 0,5 km 2.4 GHz ISM band encrypted two-way-communication	<b>Conformity</b>	Status display, Configuration display CE-Sign R&TTE-Directive 1999/5/EG
<b>Connection server</b>	GSM Quad-band 850/ 900/ 1800/ 1900MHz GPRS class 12/10 2 SIM (redundant) WLAN IEEE 802.11b/g* LAN (100-Mbit/s-Ethernet)*	<b>Power</b>	14-32 VDC max. 1 Ampere
<b>Functions</b>	Receiving and storing of logs of all systems in reach  Transferral of logs by mobile network or WiFi  Synchronization of virtual credit (charging over Internet) with the server  Provision of the virtual credit for all assigned PPW in range  Blacklist for PoS-T  Update-over-air  Fallback to a second GSM modem if mobile network is not available Configuration automatically via server	<b>Protection</b>	up to IP66
<b>Synchronization</b>	Configurable: 1 min up to 24h	<b>Temperature</b>	5 to 55° Degrees Celsius
<b>Security</b>	AES-256	<b>Humidity</b>	0 to 95%
		<b>Dimensions</b>	100mm x 100mm x 50mm * optional