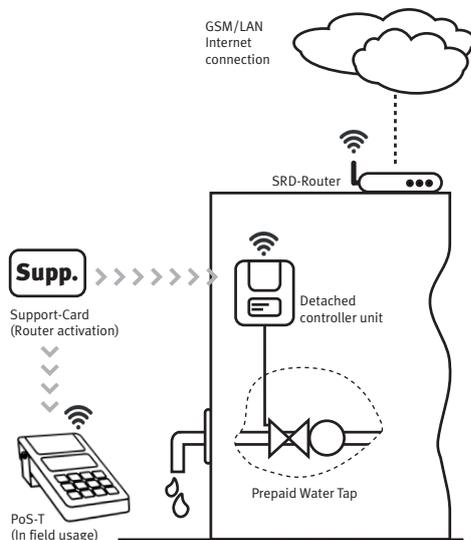




Prepaid Meter Router

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.



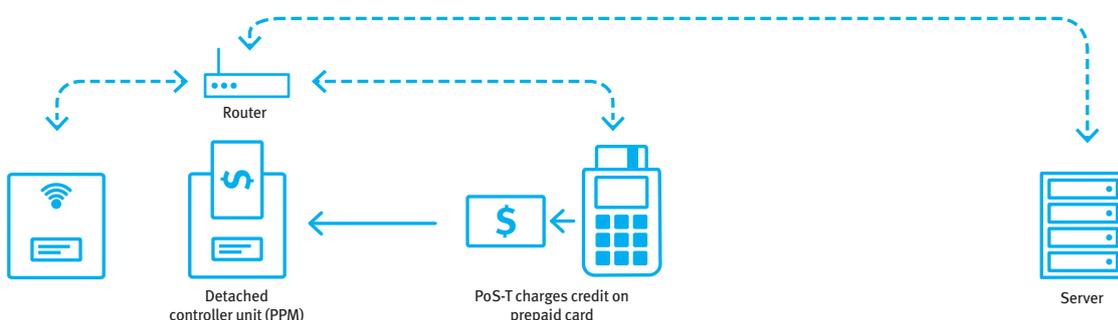
Synchronization

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

Controller	Powerfull Linux-ARM architecture	Display	LCD/LED
Connection local	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	Conformity	Status display, Configuration display CE-Sign R&TTE-Directive 1999/5/EG
Connection server	GSM Quad-band 850/ 900/ 1800/ 1900MHz GPRS class 12/10 2 SIM (redundant) WLAN IEEE 802.11b/g* LAN (100-Mbit/s-Ethernet)*	Power	14-32 VDC max. 1 Ampere
Functions	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	Protection	up to IP66
Synchronization	Configurable: 1 min up to 24h	Temperature	5 to 55° Degrees Celsius
Security	AES-256	Humidity	0 to 95%
		Dimensions	100mm x 100mm x 50mm * optional