

## The MASK Cloud Services.

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Talk2m acts as a bridge that allows your factory - especially the machines in this factory - and your computer, mobile device or monitoring system to be interconnected.

Talk2m fully integrates IT security standards by enabling Internet tunnelling between the user and the remote machine(s) without requiring any modifications to the security settings of your IT network. Talk2m VPN tunnels are initiated by your Mask device and are based only on outbound connections. There are no incoming connections!

On one side, the Mask device establishes a secure VPN connection to a Talk2m cloud server using a UDP (1194) or TCP (443) port, thereby passing through the firewall and proxy server.

On the other side, the user establishes a secure connection (VPN or HTTPS) to the Talk2m cloud server which then acts as a relay to interconnect the two connections: the one from the Mask device to the one from the user.

## ROUTING

- Routing capability between LAN and WAN Ethernet interface and Ethernet to serial gateway

## ETHERNET TO SERIAL GATEWAYS

- MODBUS TCP to MODBUS RTU; XIP to UNITELWAY; Ethernet/IP™ to DF1; FINS TCP to FINS Host link; ISO TCP to PPI, MPI (S7) or PROFIBUS (S7); VCOM to ASCII.

## DATA ACQUISITION PROTOCOLS

- OPC UA, MODBUS/RTU, MODBUS/TCP, Unitelway, DF1, PPI, MPI (S7), PROFIBUS (S7), FINS Host link, FINS TCP, Ethernet/IP™, ISO TCP, Mitsubishi FX, Mitsubishi melsec, Hitachi EH, ASCII, BACnet/IP. Stored in 2500 internal tags.

## DATA PUBLISHING PROTOCOLS

- OPC UA, Modbus, MQTT, SNMP, HTTPs.

## ALARMS

- Alarms notification by email, SMS, FTP put and/or SNMP traps. 4 Thresholds: low, low low, high, high high + deadband and activation delay.

## DATA LOGGING

- Internal database for data logging (real-time logging and historical logging up to 1,000,000 timestamps).
- Historical data can be exported to Data Mailbox or transferred by FTP or email.

## SD CARD READER

- A/ for easy commissioning (firmware upgrade, backup, Talk2m registration) B/for Extended User Memory.

## ROUTER

- IP filtering, IP forwarding, NAT, Port forwarding, Proxy, Routing table, DHCP client/server, NAT 1 :1.

## VPN TUNNELLING

- Open VPN either through UDP 1194 or TCP 443 (HTTPs port).

## VPN SECURITY

- VPN sessions are end-to-end encrypted using SSL/TLS protocol.
- Communications between the remote user and the unit are fully encrypted using the SSL/TLS protocol
- Ensuring data authenticity, integrity & confidentiality. Indeed, all users and the units are authenticated using x509 SSL certificates and end-to-end traffic is encrypted using strong symmetric & asymmetric algorithms that are part of the SSL/TLS protocol cipher suite.

## PROGRAMMABLE

- Script interpreter for Basic language, Java 2 Standard Edition environment.

## SYNCHRONIZATION

- Embedded real-time clock, manual setup via http or automatic via NTP.

## Specifications

## Specifications continued..

### FILE MANAGEMENT

- FTP client and server for configuration
- Firmware update and data transfer.

### WEBSITE

- Embedded web interface with setup wizards for configuration and maintenance (no extra software needed).
- Authentication with login/password and user management capability.
- Possibility of uploading custom web GUI.
- Compatible with View on web HMI.

### USER FLASH DISK

- Up to 30MB available for user application.

### MECHANICALS

- Din Rail or wall screw fixing system. Dimensions: 133 x 122 x 55 mm (H x D x W).
- Weight: 280 g without extension card

### POWER SUPPLY

- 12 - 24VDC +/-20%, LPS. Consumption: depending on the extension card installed (see Installation guide on our website)

### INPUT/OUTPUT

- 2x digital input: 0 to 12/24VDC; 1.5kV isolation.
- 1x digital output: open drain (MOSFET) 200mA; 1.5 kV isolation.

### MASK BASE MODULE INTERFACE

- 4 x RJ45 Ethernet 10/100 Mb. Configurable LAN/WAN ports, port 1 always LAN

### TEMPERATURE RANGE

- Operating: -25°C to +60°C, 10 to 95% relative humidity (non-condensing).
- Storage: -30°C to +70°C, 10 to 95% relative humidity (non-condensing).

### MARKING

- CE, cURus, FCC, UKCA, RCM