SMSEagle
Hardware SMS Gateway

SMSEAGLE
MHD-8100-4G
Tech datasheet

Rev. 1.1

Reference:
SMSEagleMHD81004G

DEVICE **DESCRIPTION**

SMSEagle is a professional **hardware SMS gateway** for sending and receiving SMS & MMS messages in an automated manner. The device is designed with focus on reliability and stability. SMSEagle has a modern responsive web-interface, stable database backend, and built-in 8x 4G modems with fail-over mechanisms (based on software watchdog) which monitor the work of a modem. Thanks to built--in 4G modems, SMS messages are sent/received directly to/from UMTS/LTE network without using any external 3rd party solutions. The device is equipped with antennas with 2dBi gain – important especially in poor signal reception conditions

(eg. Server rooms). SMSEagle has a built-in **SQL database** for secure storage of sent and received messages. Built-in SNMP agent allows to constantly monitor a performance of the SMSEagle. The device has a range of built-in plugins (**Email2SMS, SMS2Email, Network Monitoring, SMS Forward, Periodic SMS, Callback URL, Autoreply** and other) that enable additional functionalities. SMSEagle has easy to use API for integration with external applications.
Ready-to-use source codes for API are provided on **www.smseagle.eu** website.

HARDWARE DETAILS

Processor type:	Intel(R) Celeron(R) CPU N3350
RAM type:	2GB LPDDR4
Internal storage:	32GB eMMC storage
Network interface:	2x Ethernet 10/100/1000 TX (2xRJ45)
Other interfaces:	1x HDMI+DP, 2x USB 3.0
Power consumption:	40W
Noise level:	Fanless
Dimensions:	(width x depth x height) 44 x 15.5 x 4.5 cm
Weight:	1.8kg
Casing:	Metal Rack 1U"
Operating parameters:	Operating temperature: 32-140°F / 0~60°C
	Humidity: 10%~80%RH (non-condensing)
Built-in 4G modems:	RF Bands: LTE-FDD: B1/ B2/ B3/ B4/ B5/ B7/ B8/ B12/B13/ B18/ B19/ B20/ B25/ B26/ B28; LTE-TDD: B38/ B39/ B40/ B41
	WCDMA: B1/ B2/ B4/ B5/ B6/ B8/ B19
SIM card standard:	8x mini
Antenna connector:	SMA-J
External Antenna:	8x Omnidirectional 2dBi
Power supply:	Voltage ranges: 100–240 V AC
	Frequency: 50–60Hz
Approvals:	CE, ISED, RoHS, UKCA, RCM, FCC (for RF-module), IC (for RF-module), GCF (for RF-module), PTCRB (for RF-module)
LTE standard:	Cat. 4: max 150Mbps download/50 Mbps upload (disabled/enabled)

SENDING/RECEIVING THROUGHPUT

- **incoming transmission rate:** up to 8x30 SMS/min
- **outgoing transmission rate:** up to 8x30 SMS/min

SOFTWARE PLATFORM

- operating system: **Ubuntu 22.04**
- built-in **Apache2 web server**
- built-in **PostgreSQL database server**
- built-in **Postfix server**

- built-in **SNMP agent**
- responsive **web interface**
- **watchdog mechanism** for 4G modem
- **failover mechanism** support (HA cluster)

INSTALLATION AND SETUP

Installation of the device is easy and takes three basic steps:

1) Put a **SIM card** inside
2) Connect to **LAN (Ethernet)** network
3) **Configure IP address** in a web-browser

For detailed instructions on configuring IP address please refer to a user`s manual

SERVICE & SUPPORT

We provide users with ready-to-use **source codes** for easier integration with external software. SMSEagle comes with a **standard 2 year warranty and support**, as well as assistance in integration with external software if needed. Assistance is done via email/telephone/remote access.

The **warranty & support can be extended to 3 or 5 years** at the time of purchase to cover any hardware or software issues. For a detailed information on warranty terms and conditions check the link below (Warranty Terms and Conditions).

USEFUL EXTERNAL LINKS

- User`s **manual** (pdf file) http://**www.smseagle.eu/downloads**
- Warranty **terms and conditions** (pdf file) http://**www.smseagle.eu/downloads**
- **API description** with sample source codes http://**www.smseagle.eu/api**

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