OEM instructions

The manufacturer of the end product shall consider the following hints:

1) The end product (host) with the module built inside must be marked as follows:

Contains Transmitter Module FCC ID: TVU-MD40 / IC: 8023A-MD40
Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Module transmetteur ID IC: 8023A-MD40.
Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas causer d'interférences nuisibles et (2) appareil doit accepter toute interference recue, y compris les interferences qui peuvent pertuber le fontionnement.

2) The following regulatory statements shall be printed in the user manual for the end product.

FCC Information:
Changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the system off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
1. Reorient or relocate the receiving antenna.
2. Increase the separation between the end product and receiver.
3. Connect the end product into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio TV technician for help.

Industry Canada Information:
Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network, protective, operational and safety requirements as prescribed in the appropriate Terminal
Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.
Repairs to certified equipment should be coordinated by a representative designated by the supplier.
Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together.
This precaution may be particularly important in rural areas.
NOTE: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate. This product meets the applicable Industry Canada technical specifications.
This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

3) General Information

A host product is required to comply with all applicable FCC equipment authorizations regulations, requirements and equipment functions not associated with the transmitter module portion. For example, compliance must be demonstrated to regulations for other transmitter components within the host product; to requirements for unintentional radiators (Part 15B), such as digital devices, computer peripherals, radio receivers, etc.; and to additional authorization requirements for the non-transmitter functions on the transmitter module (i.e., Verification, or Declaration of Conformity) (e.g., Bluetooth and WiFi transmitter modules may also contain digital logic functions) as appropriate.

To ensure compliance with all non-transmitter functions the host manufacturer is responsible for ensuring compliance with the module(s) installed and fully operational. For example, if a host was previously authorized as an unintentional radiator under the Declaration of Conformity procedure without a transmitter certified module and a module is added, the host manufacturer is responsible for ensuring that after the module is installed and operational the host continues to be compliant with the Part 15B unintentional radiator requirements.

Single or limited-single modules and the RF front-end section of a split or limited split-module must be a separate physical assembly that can be installed into (or attached to) a host as a separate sub-assembly (daughter-board sub-assembly). The method used for input and output electrical connections to the host can be soldered, cabled, wired, or use plug-in connectors. A module cannot be solely the implementation of a design specification. Only the control-element section of a split-module device may comprise software certified as companion code to a specific RF front-end (section).
A host using a component that has been authorized as a module may, subject to the requirements described below and the conditions of the grant, (1) be marketed and sold with the module built inside that does not have to be end-user accessible/replaceable, or (2) be marketed with the module being end-user plug-and-play replaceable.

The antenna(s) used for this transmitter must not be collocated or operated in conjunction with any other antenna or transmitter within a host device, except in accordance with FCC multi-transmitter product procedures.

The Gigaset MD40 will be delivered with default settings which fulfill the regulatory standards. If parameters are changed, the conformity to the regulatory standards could not be fulfilled. The distributor has to prove the conformity to the regulatory requirements again

4) Safety Instructions

In customer related documents of the end product like instruction manuals, installation guides etc. appropriate safety instructions have to be included.
The supplier of the complete system is responsible for these safety instructions.

The transmitted RF-signal is modulated in a time multiplex process with a frame length of 10ms (100Hz). A possible demodulation in devices with electro-acoustically transducers can cause a humming noise.

The transmitted RF-signal can cause malfunctions in electronic devices located close to the module.

The specific external power supply for the Cordless Voice Module SC14CVMDECT has to fulfill the requirements according to clause 2.5 (Limited power source) of this standard EN 60950-1:2006.

Interconnection circuits shall be selected to provide continued conformance to the requirements of clause 2.2 for SELV (Safety Extra Low Voltage) circuits according to EN 60950-1:2006 after making connections.

Requirements additional to those specified in common safety standards may be necessary for:

- Equipment intended for operation in special environments (for example, extremes of temperature, excessive dust, moisture or vibration, flammable gases and corrosive or explosive atmospheres).
- Equipment intended to be used in vehicles, on board ships or aircraft, in tropical countries or at altitudes greater than 2000 m.
- Equipment intended for use where ingress of water is possible.

Installation by qualified personnel only!

The product is a component intended for installation and use in complete equipment. The final acceptance of the component is dependent upon its installation and use in complete equipment.

Gigaset MD40 contains an internal fuse which is implemented as a track on the PCB.
The fuse is tripped at a current of 3 - 4A. The module has to be exchanged if the fuse is blown.

Medical and electronic devices can be affected in their function.
Consider the technical conditions of your surrounding e.g. medical practice.

The Gigaset MD40 can cause annoying noise in hearing aids.

Point your customer to the fact that your system/device behaves like a cordless telephone. This applies especially for the indoor and outdoor range.
Also consider that the radio link can be interrupted by external environmental influences (e.g. motor vehicles which affect the radio coverage at the range limit).

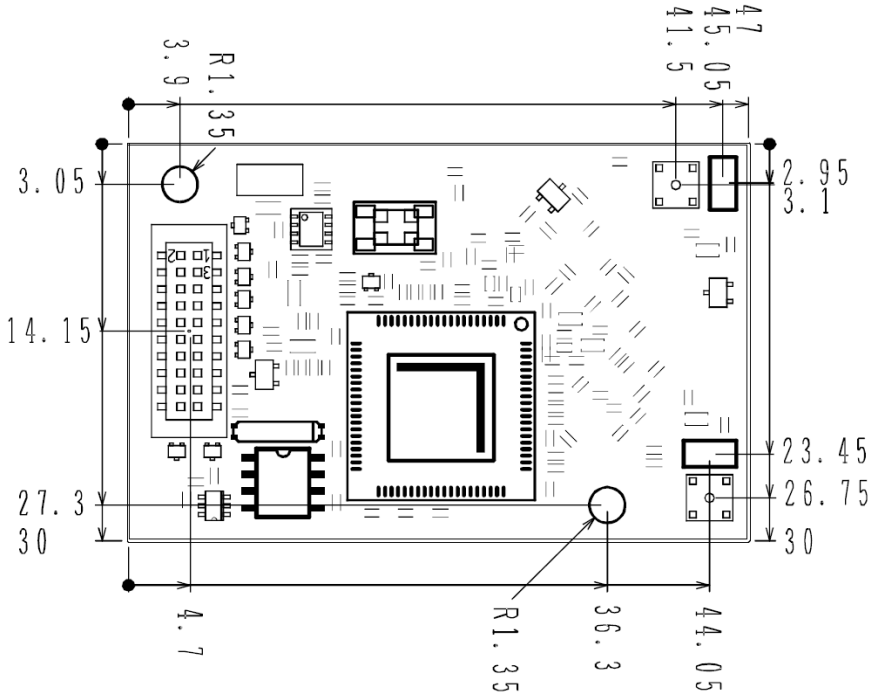
Without a sufficient supply voltage (e.g. an empty battery) the equipment can’t work correctly.

5) Installation guide

The module shall be operated only with the voltage stated in the specification.

The module contains an internal fuse which is implemented as a track on the PCB.
The fuse is tripped at a current of 3 - 4A. The module has to be exchanged if the fuse is blown.

The MD40 is intended to be fixed at the host board with two M2.5 screws on distance bolts.
The two distance bolts must have a length of 6.2mm (+- 0.2mm) and a diameter of 4mm (+- 0.5mm).



The module is supplied with two DECT-antenna springs.
The internal antennas are installed by plugging the antenna springs into the antenna ports.
It is recommended to protect the antennas against mechanical shocks or vibration in the host device in which the engine is installed.

The module is conform with the FCC and Industry Canada regulations with the provided internal antennas (C39363-A290-B35 / Johann Vitz GmbH & Co. KG) only.
If other antennas are used in the end product, a new assessment of conformity with the regulatory standards is mandatory.

For optimum performance, an antenna generally needs to be surrounded by an unobstructed space a few wavelengths in size.
Any dielectric or conducting material in the immediate vicinity of an antenna affects the radiation pattern and performance of the antenna. Hence, whenever mechanical design allows, as much space as possible must be left clear around the antenna spring (min. 40mm). This ensures that the impact of surrounding PCBs or other conducting parts (cables etc.) on the antenna's performance can be kept at an acceptable level.
If, for mechanical reasons, there is only limited room around the engine's antenna springs, the effect of this on the antenna's performance and FCC / Industry Canada type approvals needs to be taken into account, together with the resulting reduction in achievable range.
For the purposes of ESD protection, internal antennas must have an air gap of at least 10 mm from any possible position of the ESD test finger or test probe, to avoid an air discharge.

If external antennas are used, the ground shield of the coaxial cable is connected to the ground of the host interface. The requirements of the safety standards have to be considered.

Air discharge onto the external antenna or the antenna connectors may cause temporary loss of synchronization between the fixed part and the portable part. In V.24 replacement mode this results in an interruption of the connection for several seconds. In GAP-PP mode the connection will be released.
To avoid these effects, care should be taken in designing the housing and the arrangement of the external antennas. The coaxial cable shielding must be prevented from conduction the discharge current away over the DECT Engine e.g. by a direct ground connection to a metal housing on the antenna connector. If a plastic housing is used, all metallic surfaces must be covered by plastic material. Metallic surfaces should have an air gap of at least 10 mm from any possible position of the ESD test finger or test probe, to avoid an air discharge.