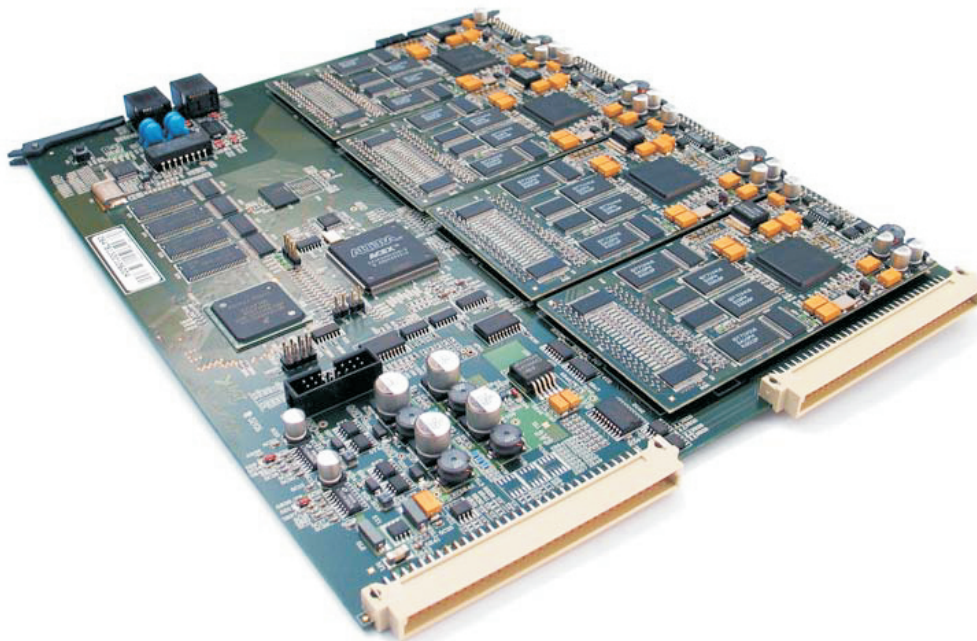


## VoIP Access Units - Voice over IP Card



The **Voice over IP Card** is an integrated VoIP gateway designed for the DGT Millennium Telecommunications System and DGT 3450-1 WW military exchange. It expands the functionality of the communication server allowing to deploy scalable, carrier-grade, VoIP services. This modern card is based on state-of-the-art technologies concerning sound and voice processing circuits plus recent solutions in microprocessor technology. The card includes a wide range of features supporting its comprehensive use.

### Functionalities

- VoIP gateway
- high quality calls
- use in VoIP networks utilizing H.323, SIP, MGCP standards
- supports up to 1000 VoIP clients per card
- networking switches using IP
- compatibility with hardware from other manufacturers

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# VoIP Access Units - Voice over IP Card

In a basic configuration the card may be used for connecting VoIP subscribers (VoIP terminals), such as digital IP phones or SoftPhones.

It is possible to use various signalling protocols, such as: MGCP (upon request), H.323 or SIP.

Depending on the operation mode, up to 1000 IP terminals may be connected to a single card, while maintaining QoS.

The connected terminals may operate with various codecs, especially with: G.711, G.726 and G.729. Other codecs may be implemented upon request.

The card may perform additional advanced features uncommon in other solutions, i.e. transcoding carried out on the card's hardware level. Thus, it is possible to set up calls between IP subscribers who do not support a common codec.

The **VoIP Card** may be also used for interconnecting communication servers into a network using SIP and H.323 protocols. The use of much cheaper IP lines entails building a low cost and reliable network of switches supporting flexible and efficient (due to voice compression) bandwidth management in corporate IP networks.

The card is fully integrated with the Millennium telecommunication server, which ensures coherent subscriber and traffic management in the system.

It is also possible to use DGT Remote Maintenance and Management System to manage DGT systems in a coherent way. SNMP management can also be used upon the client's request.

## Technical data

| Circuit type   | VoIP Card   |
|--|---|
| ■ internal interface .....                                       | highway to the switching network 4 x 2Mbit/s<br>HDLC to Control Unit<br>Ethernet 10/100 Mbit/s<br>RS232-LCM   |
| ■ max. number of supported channels .....                        | 128   |
| ■ max. number of supported IP subscribers .....                  | ca. 1000 x (1-4)  |
| ■ authorization .....  | RADIUS + communication with JC SKB  |
| ■ supported VoIP protocols .....                                 | H.323<br>SIP<br>MGCP (option)   |
| ■ coding and compression<br>algorithms + echo cancellation ..... | G.711 Alaw 64kbit/s<br>G.726 48/32/16 kbit/s<br>G.729(a,b)<br>VAD (silence detection)<br>G.168 echo cancellation<br><i>Comfort noise generation</i> |
| ■ fax .....  | G.711 Alaw, T.38<br>G3 fax support & modem  |
| ■ additional features .....                                      | compressed channel switching<br>QoS (ToS, 802. 1p/q)  |