

MCG-101

Single Channel Iridium PBX

The MCG-101 was designed to provide the most powerful, waterproof Iridium communications system to offices, military, marine, aircraft, and many other markets.

The system is an intelligent solution for Iridium that operates as a telephone, Internet portal, GPS device, SMS, RS232 and CAN device all in one package.

The MCG-101 utilizes 100% digital technology. This enables the system to provide clear, true to life audio. This eliminates all echo problems while adding limitless features.

Connecting to the Internet is as simple as connecting your computer to the Ethernet port. No special drivers, no special software, just get online.

Making or receiving a phone call is just as simple. Plug in a standard telephone, Iridium handset, or any SIP capable phone and your calls will come through with digital clarity.

The MCG-101 can also be customized with software through authorized partners via an SDK. With this flexibility, it can be easily integrated into new projects and adapt to existing projects that previously seemed too complex.

Including it's IP67 rating and workhorse processing, the MCG-101 is the ultimate Iridium telecommunications system.



Ethernet port:
Attach to any computer and you can connect to the Internet, setup your MCG-101 PBX and call routing features, and monitor the status of your MCG-101.



Iridium DPL port:
Attach an Iridium DPL handset and you can make and receive phone calls plus view the status of the Iridium network through the integrated LCD screen.



Telephone/POTS line:
Attach any standard 2-wire telephone or PBX and you can make and receive calls over Iridium.



Monitoring:
The system health can be monitored locally by any computer attached to the local network, or remotely by a system administrator/technician.



GPS:
An optional GPS receiver can track your location and send position reports via SMS or SBD when your MCG-101 is idle.



RS232 port:
Attach to a computer or remote terminal to connect to the Internet, make standard data calls, or send/receive SMS.

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Equipment Overview

The MCG-101 is a Iridium based satellite PBX that operates anywhere on the planet. The Iridium network is capable of voice, data, and SMS. Installing the unit only requires power, a SIM card, and an external antenna. All of the equipment is enclosed in an IP67 rated enclosure to withstand a wide range of environmental conditions. Your local Iridium service provider can also help you with installation and setup of your MCG-101.

Dimensions and Weight

MCG-101 without mounting tabs

Height 2 in. (5.08 cm)

Width 8 in. (20.32 cm)

Depth 8 in. (20.32 cm)

Weight: 4 lb (1.8 kg)

Power Requirements/Specs

Power requirements 30W or 102 BTU per hour

DC input voltage: 10 to 30 V DC, 3-1.2 A

Environmental requirements Operating temperature: 32 to 113°F (0 to 45°C)

Storage temperature: -13 to 158°F (-25 to 70°C)

Operating relative humidity: 10 to 85% (non condensing)

Operating altitude: up to 10,000 ft (3000m)

Storage altitude: up to 15,000 ft (4500m)

System Capabilities

System capabilities include all major PBX features, including:

- Call features
 - Authentication
 - Automated Attendant
 - Blacklists
 - Blind Transfer
 - Call Detail Records
 - Call Forward on Busy
 - Call Forward on No Answer
 - Call Forward Variable
 - Call Monitoring
 - Call Parking
 - Call Queuing
 - Call Retrieval
 - Call Routing (DID & ANI)
 - Call Snooping
 - Call Transfer
 - Call Waiting
 - Conference Bridging
 - Database Store/Retrieve
 - Database Integration
 - Dial by Name
 - Direct Inward System Access
 - Distinctive Ring
 - Do Not Disturb
 - Flexible Extension Logic
 - Interactive Directory Listing
 - Local and Remote Call Agents
 - Macros
- Call features
 - Predictive Dialer
 - Privacy
 - Overhead Paging
 - Protocol Conversion
 - Remote Call Pickup
 - Remote Office Support
 - Roaming Extensions
 - Supervised Transfer
 - Talk Detection
 - Three-way Calling
 - Transcoding
- Voice mail
 - Visual Indicator for Message Waiting
 - Stutter Dial tone for Message Waiting
 - Voice mail to email
 - Voice mail Groups
 - Web Voice mail Interface
 - Graphical Call Manager
 - Predictive Dialer
- Codex
 - ADPCM/G711/G722/G7231/G726/G729/GSM/iLBC/Linear/LPC-10/
 - Speex
- Protocols
 - IAX
 - SIP
 - SCCP
 - Traditional Telephony Interoperability
 - FXS
 - MF and DTMF support