

SOPHO IPC – SIP

Future proofing your telephony solution

Key features

- Open standard
- Future proof
- Save costs by using your network infrastructure and the internet
- SIP extension support:
 - Telephones (hardware)
 - Softphones (software)
 - Terminal adaptors
- Trunk support
- Networking support



SIP (Session Initiation Protocol)

Voice over IP (VoIP) is a technology used to integrate your telephone system and data network, enabling the use of spare bandwidth on your existing networks for telephony. As in the computer industry, open standards within telecommunications will drive down costs, creating more value for end users.

SOPHO IPC employs VoIP technology based on international standards, the most common open standard being Session Initiation Protocol (SIP - RFC3261/3842). SIP is a real-time, multimedia protocol at the heart of the current communications revolution, that brings together voice, data and video. Apart from bringing the PSTN network into the 21st century, it is creating major benefits for businesses.

With SIP on SOPHO IPC, the choice now is expanded to system telephones or third-party alternatives, which also makes our communication solutions more cost-effective.

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Future proof

The IP network is continually evolving. SIP has become the standard for IP telephony, quickly replacing the older H.323 standard. Since SOPHO IPC is already compatible with many ISP providers, SIP networks and SIP devices, businesses that want to ensure compatibility with this evolving new-generation network can implement SIP on their IPC platform immediately.

SIP extensions

Both the IPC 100 and IPC 500 allow SIP telephones to register as an extension. This means that SIP telephones can have an extension number, allowing users to make and receive calls in the same way that they would with an ordinary analogue phone.

There are many SIP devices available, including:

- Telephones (hardware)
- Softphones (software)
- Terminal adaptors

The comprehensive set of telephone features supported by SIP devices includes, but is not limited to:

- Calls from SIP extensions to any internal or external extension
- Calls to SIP extensions from any internal or external extension
- Calling Line Identification
- Hold/Enquiry
- Shuttle/Transfer
- Dialed features
- Group member

Using any combination of SIP, IP or legacy phones, IPC can quickly deliver infrastructure savings.

SIP networking

By utilising SIP's networking capability, it is possible to network up to 1000 IPC 100 and IPC 500 systems. In some cases, it is even possible to integrate other SIP compliant or legacy PBX's into the VoIP network. This enables businesses with several offices or sites to call each other free of charge.

Another advantage of SIP networking is the ability to implement a unified numbering plan. The advanced call-routing capabilities of the IPC 100 and IPC 500 allow the VoIP network to be numbered in such a way that users can dial 'desk to desk'. This enables users to simply dial extension numbers, rather than the full number; when calling another branch or site.

SIP trunks

For organisations thinking about replacing their telephony systems either now or in the future, a fundamental issue they need to address is future proofing. Carriers are engaged in major investment programmes to replace their existing legacy PSTN networks with networks based on the new SIP communications standard.

SIP trunks are alternatives to traditional ISDN and analogue trunks, and operate using internet connections rather than physical lines. Since calls are routed via the internet, it is possible to make long-distance and even international calls at a fraction of the normal price.

Another advantage of SIP trunks is that they have no geographical limitations. You could have an IPC system in Amsterdam, but have a Paris or London telephone number, and external calls would appear to be made from these cities!

With all of the major carriers committed to replacing their existing PSTN networks with IP networks, your business needs to keep pace with these developments. SOPHO IPC is compatible with these evolving new-generation networks and does not involve an expensive upgrade or large purchases of additional hardware. It's an out-of-the-box solution and any future upgrades will be software-based.

SIP certification

While SIP is the most widely used and flexible VoIP protocol, there are small differences in the way manufacturers implement SIP standards. For this reason, it is necessary to perform interoperability tests on SIP services and hardware not yet certified, to avoid issues of compatibility.

A SIP certification procedure has been implemented in connection with SOPHO IPC. At our own discretion, we will complete compatibility testing for a specific carrier. If the results of these tests prove satisfactory, a certificate of compatibility will be issued.

A complete list of certified SIP extensions and SIP carriers can be found on www.nec-philips.com.

For further information please contact your local NEC Philips office or:

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