



SMG-3016

Hybrid Platform with IP PBX Functions

- Scalable platform 1U
- IP PBX for 3 000 subscribers with VAS support
- High-quality voice processing
- Carrier class reliability
- Up to 768 VoIP channels
- Up to 16 E1 streams (RJ-48)
- Support for 2 HDD SATA 2.5"
- Hardware redundancy

Hybrid platform SMG-3016 is used as a trunk gateway for interfacing of signal and media streams of TDM and VoIP networks. The gateway also might be used as an IP PBX with value added services (VAS) support and a multipurpose solution for infocommunication new generation networks (NGN).

The wide function-set, strict compliance with requirements and standards and carrier class reliability allow service providers and carriers to solve most part of their objectives on the basis of SMG- 3016.



Functional Compatibility

The strict compliance with up-to-date protocols' requirements, recommendations and standards provides functional compatibility with a variety of equipment: digital PBX, IP PBX, Softswitch, VoIP gateways, SIP phones, software SIP clients, etc.

RADIUS Routing

Intellectual call routing based on billing system responses via the RADIUS protocol allows you to create flexible methods of call processing.

Scalability

SMG-3016 is a beneficial investment in the future of your project due to its scalability. The gateway supports up to 16 E1 streams (SS7, PRI, V5.2) and up to 768 VoIP channels.

Carrier Class Reliability

SMG-3016 provides high level of fault tolerance, uniform load distribution among submodules, usage of up-to-date technologies based on parallel computing and power modules redundancy. In case of a primary submodule fault, the gateway switches to a backup submodule.

IP PBX with VAS Support

Additional options for SMG-3016 gateway allow using it as a full-featured IP PBX for up to 3000 SIP subscribers with support for a wide range of value added services. A programmable IP PBX module ECSS-10 is designed for fast deployment of a VoIP node with a minimum of capital expenses. ECSS-10 and SMG-3016 might be used as a PBX of any level.

Features and Capabilities

Interfaces

- 16 E1 ports (RJ-48)
- 2 ports of 10/100/1000Base-T (RJ-45) / 1000Base-X (SFP)
- 2 ports of 10/100/1000Base-T (RJ-45) ports
- 2 USB2.0 ports
- 2 slots for SATA HDD 2,5"

Voice Codects

- G.711 (a-law, μ -law), G.729 (A/B), G.723.1, G.726 (32 Kbps)

Fax Transmission

- T.38 Real-Time Fax, G.711 (a-law, μ -law) pass-through

Voice Standards

- VAD (Voice Activity Detection)
- CNG (Comfort Noise Generation)
- AEC (echo cancellation, G.168 recommendation)
- AGC (automatic gain control)

Modules of SMG-3016

- SM-VP-M300 : submodule with support for up to 128 VoIP channels (G.711)
- C4E1: submodule with support for up to 4 E1 streams

TDM Protocols

- SS7, PRI (Q.931)
- Q.699 (PRI and SS7 interaction)
- V5.2 LE, V5.2 AN

VoIP Protocols

- SIP, SIP-T/SIP-I, SIP-Q, H.323
- SIGTRAN (M2UA, IUA), H.248

Capacity and Performance

- Up to 768 VoIP channels
- Up to 16 E1 streams (RJ-48)
- Maximum load intensity — 120 cps
- RAM 2 GB

Quality of Service (QoS)

- Diffserv and 802.1p priorities assignment for SIP and RTP
- Dynamic and Static jitter buffer

Physical Specifications

- Dimensions (WxHxD), 430 x 45 x 340 mm
- Power supply: AC: 220V+/-20%, 50 Hz DC: -48V+30%-20% hot-swappable AC/DC power supplies
- Max. power consumption : 50W