



## Firmware

Device operated with Version 11r2sr10 or higher

Size: 210 x 148 x 32 mm

one height unit (HU) for 19" systems

Weight: 1050 g

## Interfaces

1 x PRI-interface (S2M): for connection of ISDN-PRI-trunkline, use on E1 or T1 lines, RJ-45 (modular Jack 8P8C), TE or NT mode operation, Clock accuracy 5 ppm

2 x Gigabit Ethernet: 1000-BASE-T (auto negotiation), RJ-45 (modular Jack 8P8C)

„Power over Ethernet“ according to IEEE 802.3af, Class 3

Energy Efficient according to IEEE 802.3az

## SSD

- Internal slot for mSATA SSD
- Power consumption up to 2.5W
- Compatible to JEDEC MO-300 standard, dimension 50,8 x 29,85 mm

## Hardware

Power supply: Power over Ethernet according to IEEE 802.3af, Class 3

800 MHz CPU, 2 GB RAM, 32 MB Flash

recommended ambient working temperature: 0 °C to +45 °C

Humidity: 10% to 90% (not condensed)

Storage temperature: -10 °C to +70 °C

Digital Signal Processor (DSP) for up to 30 voice/audio conference channels

Soft Conferencing (without DSP) for up to 30 voice / conference channels G.711a/u-law (since 13r1sr13, increased with V13r3sr4)

Fifteen channels for the innovaphone faxserver using T.38 or via G.711. In case of G.711, each faxtransmission consumes 2 DSP channels.

## Voice Codecs

G.711 A-law /  $\mu$ -law, G.723.1 (5.3), G.722, G.729A, Opus-NB

Dynamic Jitter Buffering

Echo Compensation

Voice Activity Detection

Comfort Noise Generation

Modem support

## VoIP Protocols

H.323 Version 5, including proprietary extensions

H.323 over UDP, TCP, TLS 1.3

SIP Version 2, conform RFC 3261

SIP over UDP, TCP, TLS

RTP, SRTP (SDES, DTLS 1.2), RTCP, ICE

T.38 Fax (supported rates 9.6k and 14.4k) incl. fallback to G.711 (device dependent)

## ISDN protocols

valid for gateways including S0/S2M interfaces

Euro ISDN D-channel protocol (E-DSS1)

QSIG D-channel protocols: ECMA1, ECMA2

US D-channel protocols: USA-National-ISDN-1, USA-5ESS, USA-DMS100

Connection modes: Point-to-Point (PtP), Point-to-Multipoint (PtMP)

S0: up to 2 speech channels per interface

S20 E1/T1: up to 30/23 ISDN-speech channels per interface

Operation mode TE/NT adjustable per interface

## myApps Application Platform

Universal application platform

Can be operated on gateway models xx11, 11xx (not 1130) and xx13 or as a virtual solution

Provides applications for system administration and UCC client operation.

Excerpt of available applications

System Administration

- Devices app
- Users Admin app
- Contacts app
- Reporting app
- Alarm app and Event app
- Files app
- Calendar app
- innovaphone App Store
- Control/access via UCC client myApps

UCC client myApps (PBX based)

- Phone app and Softphone app (PBX function)
- Call List app
- Chat app
- Fax app
- Voicemail app
- Phone book access system/external/Outlook
- Supported OS: Windows, MacOS, iOS, Android or WebClient

## Network

IPv4/IPv6 Support (not myApps-ApplicationPlatform)

NAT, H.323-NAT, STUN, TURN over UDP/TCP

RSTP, EAP-TLS/EAP-MD5 acc. to IEEE 802.1X

LDAP/S support

DHCP support

NTP support

VLAN-ID acc. to IEEE 802.1Q

LLDP support for VLAN configuration

PPPoE, manual or automatic connection after boot

PPTP Tunneling up to 32 tunnels simultaneously, encoding via MPPE

Reverse Proxy, various SBC-functionalities (IPxx11/IPxx13/11xx recommended)

## Administration

Password protected administration access via web-browser, optional two-factor authentication

Store and restore configuration files

System-wide automatic upgrade of firmware and configuration data via the myApps

Devices app

Automatic ping connection test

Display of interface and connection status

Generation of log and trace files and SNMP.V3-traps

## Device-specific licences

Depending on the model, additional PBX channels licences (02-00020-007) for soft conferencing can be extended.

## Conformities

see separate information sheet

**Order Number: 01-03011-001**