



## Firmware

Device operated with Version 11r2sr10 or higher  
Size: 210 x 148 x 32 mm  
one height unit (HU) for 19" systems  
Weight: 840 g

## Interfaces

4 x a/b interface FXO: connection of analogue trunk lines, RJ-11 (modular Jack 6P2C)  
2 x a/b interface FXS: connection of analogue extensions, RJ-11 (modular Jack 6P2C)  
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  
400 MHz CPU, 1 GB RAM, 32 MB Flash, 128 MB Flash Disk (NAND)  
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 6 voice channels  
Soft Conferencing (without DSP) for up to 15 voice / conference channels G.711a/u-law (since 13r1sr13, increased with V13r3sr4)  
One channel 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: 01-00311-001**