

*Technical Specification*

## IP Adapter IP 21

### Interfaces

Ethernet:	10/100-BASE-TX auto negotiation LED display for activity and 100Mbit modus
2 x analog interface	two German TAE-N / -F connector additional two international RJ-11
4+n terminal strip:	for intercom system
AUX interface:	3,5 mm jack stereo for an analogue audio source

### Hardware

Power Supply:	mains adapter 230 V, 50 Hz, 17 VA, (optional 110 V)
Memory:	8 MB DRAM, 2 MB Flash Remote firmware update
Operation environment:	Operation temperature      0°C to +45°C Humidity                        10% to 90% non-condensing Storage temperature        -10°C to +70°C
Housing:	424 x 192 x 40 mm Wall mounting prepared
Weight:	980 g

### Protocols

DHCP	dynamic host configuration protocol - IP interfaces settings
ICMP	Internet control message protocol - for Ping tests
PPPoE	PPP over Ethernet – direct access to DSL modem
PPTP	point-to-point tunneling protocol – to setup VPN tunnels to the corporate network
MPPE	Microsoft point-to-point encryption - encryption in PPTP
NAT	network address translation – to translate official IP addresses in unofficial addresses and vice versa
HTTP	for configuration using Web browser
SNMP	sending traps to the management software

## Voice over IP

Voice over IP:	H.323 version 4 incl. H. 225, H.235, H.245 and RAS Gatekeeper routed signaling, H.450 RTP real time protocol RTCP real time control protocol
Fax over IP:	T.38 real time fax
Supplementary Services:	H.450.1 H.450.2 Call transfer H.450.3 Call diversion H.450.4 Call hold H.450.5 Call Pick-up H.450.6 Call waiting H.450.8 Name identification H.450.9 Call Completion busy (CCBS) and Call Completion no Reply (CCNR)
RAS protocol:	support for external gatekeeper
DTMF:	H245 Alphanumeric or Signal Type
additional VoIP-Features:	H.245 fast connect En-block dialing Overlapped sending
Quality of Service:	TOS und DiffServ IEEE 802.1p / 802.1q
Voice Encoding:	G.711 A-law / $\mu$ -law (64 kbps), G.723.1 (5.3 and 6.3 kbps), G.729A (16 kbps) G.726 (32 kbps), VAD (Voice Activity Detection), CNG (Comfort Noise Generation), Dynamic Jitter Buffering
Echo Compensation:	G.168

## Administration

Access:	via HTML/Web-Browser Password protected authentication
Troubleshooting:	Logs and Traces Status display of interfaces and connections PING SNMP Traps sending
Update:	Configuration recording/sending Boot code and firmware update via HTML upload Automatic update via Update-Server

## Supplementary services

Call Transfer:	with consultation call
Call Hold / Retrieve:	with support of Music on Hold (MoH)
Call Waiting:	inclusive signaling of second call information
Calling Line Identification	with support of rerouted calls
Calling Name Identification:	Name display
3 party conference:	of internal and external subscriber
Pickup:	pickup calls for subscriber in the same group
DTMF:	DTMF tone generation and detection
Security:	Password protected configuration
General volume setting:	predefined volume setting for each device

## Door intercom

Number of intercoms:	2 different
Number of door opener:	2 separate controlled