

SCHNITTSTELLENBESCHREIBUNG FÜR FTTH UND FTTB

FTTH (FIBRE TO THE HOME)

Passive optische Schnittstelle am Hausübergabepunkt (HÜP):

Connector: LC/APC

Patchkabel: ITU-T G.657.A.1 / ITU-T-G.652.D

Interface: 1000BASEBX10-U

TX Wellenlänge: 1310 nm

TX Pegel: -3 - -9 dBm

RX Wellenlänge: 1490 nm/ 1550 nm

RX Pegel: -3 - -23 dBm

Laser Class: 1

Optical / Electrical converter:

1480nm – 1580 nm wavelength downstream, 1310nm wavelength upstream

LC/APC optical connector

Single mode fiber (ITU-T G.652)

1p

MDI/MDIX automatic sense

Router – WAN interface:

VLAN per service

DHCP client

IPv4/IPv6 dual stack

LAN: 1x 2.5GBase-T, 2x 1GBase-T.

DHCP server

NAT / PAT

UPnP

VPN pass-through

IPsec VPN

DynDNS client

DECT Basisstation

SPI Firewall

DMZ

Mixed bridged/routed port(s) for IPTV

IGMPv2, IGMPv3 snooping

SIP based Voice-over-IP

711 A-law / μ -law codec

Line Echo Cancellation

DTMF transmission: In-band, RFC2833, SIP-Info

WiFi 2.4GHz: 802.11ax, 2x2 MU-MIMO

WiFi 5.0GHz: 802.11ax, 2x2 MU-MIMO

Automatic channel selection

WPA2, WPA3

WPS button for simple WLAN network setup

Multiple SSIDs supported

Management and Control:

TR-069

SNMP

DHCP / TFTP

CLI

FTTB (FIBRE TO THE BUILDING) – MIT ZUFÜHRUNG ÜBER TELEFONVERKABELUNG IM GEBÄUDE

Über VDSL:

TAE Dose DIN 41715 oder RJ11/ RJ45 Buchse

VDSL2 G993.2

Profil 17a/ 30a

Über G.fast:

TAE Dose DIN 41715 oder RJ11/ RJ45 Buchse

fast 106/ 212 nach ITU-T G.9700/ G.9701

Interoperabilität zum Broadcom G.fast Chipsatz

Der Zugang zu diesen Diensten erfolgt per DHCP, Voip Priorisierung per separatem Vlan.

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FTTB (FIBRE TO THE BUILDING) – MIT ZUFÜHRUNG ÜBER DOCSIS

Anschlussausführung DOCSIS:
EuroDOCSIS 3.0/3.1

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