



# Remote Devices – Information

Remote Devices (RD) are used to terminate certain business accesses. The RD is selected by Deutsche Telekom as part of the deployment process and cannot be selected by the customer for a specific access.

The RD is owned by Deutsche Telekom.

## Remote Devices 1G capable – technical parameters

Remote Device (RD)	1G RD ADTRAN NV4660	1G RD albis-elcon BIG2862	1G RD albis-elcon BIG2862 WAN: Fiber only	1G RD HUAWEI ATN910I-D
<b>Supported WAN interfaces</b>	<ul style="list-style-type: none"> <li>SHDSL</li> <li>(V)VDSL</li> <li>Fiber 1G</li> </ul>	<ul style="list-style-type: none"> <li>SHDSL</li> <li>(V)VDSL</li> <li>Fiber 1G</li> </ul>	<ul style="list-style-type: none"> <li>Fiber 1G</li> </ul>	<ul style="list-style-type: none"> <li>Fiber 1G</li> </ul>
<b>Dimensions w/d/h (mm)</b>	1. Gen.: 437/218/44 2. Gen.: 437/187/44	315/197,5/43	315/197,5/43	250/180/43,60
<b>Note on construction</b>	When installed in a 19" rack, three height units (HE) are required per access. A patch panel must be provided within the same rack.			
<b>Mounting options</b>	Desk/Rack 19"			
<b>Power supply</b>	230V AC or 48V DC			
<b>Climate conditions</b>	Indoor (ETSI 300 019-1-3, climate class 3.1(E) (-25°C to +55°C)) is supported. 48V models only: Outdoor (ETSI 300 019-1-3 only in weather-protected housing, climate class 3.1(E) (-25°C to +70°C)) is supported.			
<b>Physical LAN-Ports</b>	4 x RJ45/SFP Combo (electrical/optical) 1G			2 x RJ45/SFP Combo (el./op.) 1G 2 x RJ45 electrical (only one usable) 1G 1 x SFP 1G (electrical/optical)
<b>Clock options</b>	<ul style="list-style-type: none"> <li>1 x T4 (G.703; T12 or E12)</li> <li>SyncE (ITU-T G.8261 et. al) on all LAN ports</li> </ul>			
<b>Supported Interface-Specifications (on Customer site/LAN)</b>	Electrical Interfaces:	<ul style="list-style-type: none"> <li>10/100/1000BaseT (IEEE 802.3-2012 clause 14/25/40)</li> <li>10/100: full duplex; 1000: Autonegotiation</li> <li>Access: RJ45</li> </ul>		
	Optical interfaces 1G:	<ul style="list-style-type: none"> <li>1000BaseLX (IEEE 802.3-2012 clause 38/Singlemode 1310 nm 9/125 µm)</li> <li>1000BaseSX (IEEE 802.3-2012 clause 38/Multimode 850 nm 62,5/125 µm or 50/125 µm)</li> <li>full duplex</li> <li>Access: LC-Duplex</li> </ul>		



# Remote Devices – Information

## Remote Devices 10G capable – technical parameters

Remote Device (RD)	10G RD albis-elcon BIG4862	10G RD HUAWEI ATN910B-D
Supported WAN interfaces	Fiber 10G (SFP+)	
Dimensions w/d/h (mm)	446/240/43	446/285/88,90 (alternating current 230 V) 442/220/44,45 (direct current 48 V)
Note on construction	When installed in a 19" rack, two height units (HE) are required per access. A patch panel must be provided within the same rack.	
Mounting options	Rack 19"/ETSI	
Power supply	2 x 230 V AC / 2 x 48 V DC	
Climate conditions	Indoor ETSI 300 019-1-3, climate class 3.1	
Physical LAN-ports	2 x SFP+ 10G (optical) 8 x SFP 1G (optical) 4 x SFP oder RJ45 (Combo-Ports) 1G	10 x SFP 1G (electrical/optical) 2 x SFP+ 10G (optical)
Clock options	<ul style="list-style-type: none"><li>T3/T4 about common RJ45</li><li>SyncE (ITU-T G.8261 et.al) about all LAN-ports which are not in the 10BaseT-Mode</li></ul>	<ul style="list-style-type: none"><li>1 x T4 (G.703; T12 or E12)</li><li>SyncE (ITU-T G.8261 et.al) only opt. ports</li></ul>
Supported interface specifications (User side/LAN)	<ul style="list-style-type: none"><li>LAN 1S u. 2S: SFP+ 10GBaseX</li><li>LAN 3S ... 10S: SFP 1000BaseX</li><li>LAN 11 ... 14 oder LAN 11S ... 14S: Combo-Ports:<ul style="list-style-type: none"><li>RJ45 10/100/1000BaseT (IEEE 802.3-2012 clause 14/25/40) or</li><li>SFP 1000BaseX</li></ul></li></ul>	<ul style="list-style-type: none"><li>10/100/1000BaseT (IEEE 802.3-2012 clause 14/25/40)</li><li>10/100: half duplex/full duplex</li><li>1000: autonegotiation</li><li>Access: RJ45</li></ul>
	<ul style="list-style-type: none"><li>SFP 10/100/1000BaseT no support of SynE</li><li>1000BaseLX (IEEE 802.3-2012 clause 38/Singlemode 1310 nm 9/125 µm)</li><li>1000BaseSX (IEEE 802.3-2012 clause 38/Multimode 850 nm 62,5/125 µm or 50/125 µm)</li><li>Full duplex</li><li>Access: LC-Duplex</li></ul>	
	<ul style="list-style-type: none"><li>Optical Interfaces 10G: Other physical properties of the optical interface depend on the SFP used</li><li>10GBaseLR (IEEE 802.3-2012 clause 49 and 54/Singlemode 1310 nm 9/125 µm)</li><li>10GBaseSR (IEEE 802.3-2012 clause 49 and 54/Multimode 850 nm 62,5/125 µm or 50/125 µm)</li><li>Full duplex</li><li>Access: LC-Duplex</li></ul>	



# Portmapping for Business Access

The following tables describe the static mapping of a logical LAN-port numbers to the physical port and the naming of the WAN-port designation.

On the 1G remote devices can be used max. 4 LAN-ports.

Remote Device (RD)	1G RD ADTRAN NV4660		1G RD albis-elcon BIG2862/ albis-elcon BIG2862 WAN: Fiber only		1G RD HUAWEI ATN910I-D	
Logical LAN-Port number	Physical port label					
1 (1G)	GIG 0/2		LAN1 (RJ45) / LAN1S (SFP)		FE/GE 2	
2 (1G)	GIG 0/3		LAN2 (RJ45) / LAN2S (SFP)		FE/GE 3	
3 (1G)	GIG 0/4		LAN3 (RJ45) / LAN3S (SFP)		FE/GE 4	
4 (1G)	GIG 0/5		LAN4 (RJ45) / LAN4S (SFP)		FE/GE 0	
WAN-Port designation	GIG 0/1	WAN Gf-connection up to 1G	WAN1S	WAN Gf-connection up to 1G	FE/GE 5	WAN Gf-connection up to 1G
	Quad SHDSL EFM Annex B	optional socket	Quad SHDSL EFM Annex B	optional socket	-	
	Quad (V)VDSL	optional socket	(V)VDSL	optional socket	-	

A max. of 10 LAN-ports with 1G and a max. of 2 LAN-ports with 10G can be used on the 10G remote device

Remote Device (RD)	10G RD albis-elcon 4862		10G RD HUAWEI ATN910B-D	
Logical LAN-Port number	Physical port label			
1 (1G)	LAN11 (RJ45) / LAN11S (SFP)		FE/GE 0	
2 (1G)	LAN12 (RJ45) / LAN12S (SFP)		FE/GE 1	
3 (1G)	LAN13 (RJ45) / LAN13S (SFP)		FE/GE 2	
4 (1G)	LAN14 (RJ45) / LAN14S (SFP)		FE/GE 3	
5 (1G)	LAN3S		FE/GE 4	
6 (1G)	LAN4S		FE/GE 5	
7 (1G)	LAN5S		FE/GE 6	
8 (1G)	LAN6S		FE/GE 7	
9 (1G)	LAN7S		FE/GE 8	
10 (1G)	LAN8S		FE/GE 9	
101 (10G)	LAN1S		XGE 25	
102 (10G)	LAN2S		XGE 26	
WAN-Port designation	WAN1S	WAN Gf-connection 10G	XGE 24	WAN Gf-Connection 10G