

CHARACTERISTICS

- Software Defined Radio SUMMIT DEVELOPMENT
- Transmission capacity up to 840 Mbps full duplex
- One universal unit (for both sides of link)
- In case of failure automatically switches to a backup link
- Cross-polarization connection of radio
- 4 x Gigabit Ethernet port (2 x SFP, 2 x RJ45)
- Jumbo packet transfer of MTU size up to 11 000 bytes
- Security and Access management, digitally encrypted transmitter
- Advanced QoS Port-based and Bandwidth control Management
- Optimal solution for Triple Play services with IPTV support
- Support IEEE 802.1Q VLAN (also QinQ)
- Support packet-flow control acc. to IEEE 802.3x
- Power supply via Ethernet cable acc. to IEEE 802.3at
- Power supply via separate cable (DC input 20 to 57V)
- Automatic switching to backup power supply (PoE1, PoE2, PWR)
- Built-in spectral analyzer for searching for free channel
- Easy aligning with the beeper, built-in RSSI indicator or measuring the DC voltage
- Configuration of radio link in Windows, Linux, Android, iOS
- Monitoring of radio parameters by means of IP protocol, with implemented SNMPv2
- Monitoring of device parameters in real time (input voltage, current, power ...)
- Automatic detection of radio polarization
- Direct installation of parabolic antenna



BT 17G v2 UNI

BT 17G v2 UNI is a Full-Duplex microwave link operating in the 17 GHz license-free band. The radio can provide up to 840 Mbps throughput using 128 QAM modulation and 140 MHz bandwidth. The Radio also includes advanced Ethernet settings.

It is designed as a Full Outdoor Unit (one universal unit) with direct mounting to a parabolic antenna.

The Link uses cross-polarization connection, therefore one side of the link must be installed in vertical polarization and the other side in horizontal polarization.

These properties give service providers great flexibility and speed in building up their networks. Top-quality components and durable cast-aluminium design allows the radio link to be used in very difficult climatic conditions.





STRONG



PARAMETERS

GENERAL RF

Frequency band 17,1 - 17,3 GHz Channel bandwidth 14 to 140 MHz

Asymmetric Bandwidth YES

FEC Reed-Solomon, Interleaving

 $\begin{array}{ll} \text{ACM} & \text{YES} \\ \text{Frequency stability} & \pm \ 5 \ \text{ppm} \end{array}$

TRANSMITTER

MECHANICAL

Mechanical concept Full Outdoor Dimension 145 mm x 240 mm x 240 mm Weight 3,5 kg

POWER SUPPLY & CABLE

Power Over Ethernet IEEE 802.3at (PoE+)
Separate DC power supply 20-57 VDC
Power consumption up to 35 W
Ethernet cable Outdoor FTP CAT5e max. 100 m

TRANSMISSION CAPACITY

Symmetric	Modulation	Capacity of	Sensitivity	
Bandwidth [MHz]		radio [Mbps]	for BER 10-6 [dBm]	for BER 10-9 [dBm]
90	256 QAM	620	-61	-59
90	128 QAM	541	-65	-63
90	64 QAM	464	-68	-66
90	32 QAM	387	-72	-70
90	16 QAM	309	-75	-73
90	4 QAM	154	-79	-77

ENVIRONMENTAL

Operational temperature	-20°C to 50°C
Ingress Protection	IP-67

Asymmetric	Modulation	Capacity of	Sensitivity	
Bandwidth [MHz]		radio [Mbps]	for BER 10-6 [dBm]	for BER 10-9 [dBm]
140 / 40	128 QAM	843 / 240	-63	-61
140 / 40	64 QAM	722 / 206	-66	-64
140 / 40	32 QAM	602 / 171	-70	-68
140 / 40	16 QAM	481 / 137	-73	-71
140 / 40	4 QAM	241 / 68	-77	-75

COMPLIANCE

IEEE 802.3	1000 Base-TX, 1000 Base-T
IEEE 802.3az	Energy Efficient Ethernet
IEEE 802.3x	Flow Control
IEEE 802.1q	VLAN tagging, QinQ
IEEE 802.3u	Auto-Negotiation protocol
IFFF 802 3at	Power Over Ethernet plus

ANTENNAS

Туре	Diameter [cm]	Gain [dBi]
ANT 17D35-C3	35	33
ANT 17D65-C3	65	38
ANT 17A90-C3	90	40
ANT 17A120-C3	120	42

USER INTERFACE

 Eth1, Eth2
 2 x 10/100/1000 Base-T

 SFP1, SFP2
 2 x 1000Base-SX / 1000Base-LX

 GUI
 SMS (Windows, Linux-Wine)

 WUI
 SMS (Web browser, read-only)

 MUI
 SMS (Android, iOS)



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^{* +4}dBm with modulation 256 QAM +6dBm with modulation 4-128 QAM