

ECONOMY



BT 17G v2 L/H

BT 17G v2 L/H is a Full-Duplex microwave link operating in the 17 GHz license-free band. The radio can provide up to 551 Mbps throughput using 256 QAM modulation and 80 MHz bandwidth. The Radio also includes advanced Ethernet settings.

It is designed as a Full Outdoor Unit [unit L and unit H (Low / High)] 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.

CHARACTERISTICS

- Software Defined Radio SUMMIT DEVELOPMENT
- Transmission capacity up to 551 Mbps full duplex
- Unit L and unit H (Low / High)
- 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



HIGHLY RELIABLE MICROWAVE PTP LINKS

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PARAMETERS

GENERAL RF

Frequency band	17,1 - 17,3 GHz
Channel bandwidth	14 to 80 MHz
Asymmetric Bandwidth	YES
FEC	Reed-Solomon, Interleaving
ACM	YES
Frequency stability	± 5 ppm

MECHANICAL

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

TRANSMITTER

Output power (one radio)	-25 to +10 dBm (± 1 dB) *
APC (Automatic Power Control)	YES
APCmin, APCmax	YES
Regulation APC by RSSI	YES

* +8dBm with modulation 256 QAM
+10dBm with modulation 4-128 QAM

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

Bandwidth [MHz]	Modulation	Capacity of radio [Mbps]	Sensitivity	
			for BER 10-6 [dBm]	for BER 10-9 [dBm]
80	256 QAM	551	-61	-59
80	128 QAM	481	-65	-63
80	64 QAM	413	-68	-66
80	32 QAM	343	-72	-70
80	16 QAM	275	-75	-73
80	4 QAM	137	-79	-77

ENVIRONMENTAL

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

ANTENNAS

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

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
IEEE 802.3at	Power Over Ethernet plus

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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