

LBB6017 Central Receiver



- One unit for receiving speech and data
- Software tool for easy programming of frequency and other settings
- High quality voice/speech reception
- Very high sensitivity

The central receiver is designed for use indoors with PS6000 personal security systems. There are 3 units that work within the 409-470 MHz frequency band, and the required frequency can easily be programmed by means of a special software tool. Each of the units is housed in a lightning and ESP protected strong metal case which can be wall mounted.

Functions

Data and speech

Information transmitted by Personal Security mobile units is received, processed and forwarded throughout the system. Information comprises of data (personal security alarms and status information) intended either for central control or speech to be exchanged between different suitable mobiles.

Frequency Programming Tool

The central receiver is made available in three types, each being able to be programmed within a specific frequency band:

- LBB6017/30 for 409-430 MHz
- LBB6017/50 for 430-450 MHz
- LBB6017/90 for 450-470 MHz

An easy to use software tool, installed on a PC or laptop can be used to program the exact operating frequency and to adjust the frequency deviation without any need for fine tuning. This tool can be downloaded via www.atusbv.com/downloads.

Power supply

The receiver is powered by an external 12 VDC power supply via either the RJ11 or RJ45 connector. If powered via the RJ11 connector then a 12 VDC power output is available via the RJ45 connector to supply nearby other devices.

Controls and indicators

• Green LED	ON	Power ON and synthesiser in lock
	Fast blinking	Configuration or power supply error
	OFF	No power and/or synthesizer not in lock
• Yellow/red LED	Yellow	Receiving HF signal
	Red	Signal processed and forwarded to the system

Interconnections

- Power supply (RJ11)
- Paging line and input/output power supply (RJ45)
- Antenna (N-type female)
- Internal mini USB connector (on PCB) for receiver configuration

Parts included

Quantity	Component
1	LBB6017/XX Central Receiver
1	16-pin Hirschmann cable with RJ45 plug

Certifications and Approvals

Region	Certification
Europe	CE Declaration of Conformity
CE marking	acc. To Telecom directive 1999/5/EC
Safety	acc. To EN 60950-1
EMC	acc. To ETSI EN 301 489-1 acc. To ETSI EN 301 489-2
Telecom	acc. To ETSI EN 300 224-2

Technical specifications

Electrical

Power source	12 VDC (200 mA)
Modulation	FM
Frequency range	
· LBB6017/30*	409-430 MHz (default 420.275 MHz)
· LBB6017/50*	430-450 MHz (default 434.000 MHz)
· LBB6017/90*	450-470 MHz (default 456.150 MHz)
Frequency deviation*	2.5 kHz (channel spacing 12.5 kHz) or 4.0 kHz (channel spacing 20 kHz)
Frequency accuracy	≤ 2.5 ppm
Sensitivity	≤ 0.3 μV @ 12 dB sinad
Channel spacing	12.5 kHz or 20 kHz
Band width (IF)	9 kHz / 20 kHz (typical)
Spurious emission	< 2 nW
Co-channel rejection	> -8 dB WB and > -12 dB for NB
Adjacent channel rejection	> 70 dB WB and > 60 dB NB
Intermodulation response ratio	> 60 dB
Image rejection	> 70 dB
Line output (fixed)	0 dBm @ 600Ω
Input impedance	50Ω
Squelch /RSSI threshold	Adjustable by software tool
Diversity level (DC output)	Speech: -9 ... -1 Vdc Code: 1 ... 9 Vdc
Receiver address*	B100---B1FF (default B100)
Status call	Enabled/disabled (default enabled)
Status call repeat time	0 (no repeat), 1...255 in steps of 1 minute (default no repeat)
Signal Jamming	10---255 seconds (default 60 seconds)

* can be adjusted/programmed by means of the Software Programming Tool

Mechanical

Dimensions (H x W x D)	40 x 90 x 195 mm
Weight	540 g

Environmental

Operating temperature	-25 °C to +55 °C
Storage temperature	-40 °C to +70 °C
Humidity	95% non condensing

Ordering Information

LBB6017/30 Central Receiver 8900 601 73001
Intended for operating frequency in the frequency band 409-430 MHz

LBB6017/50 Central Receiver 8900 601 75001
Intended for operating frequency in the frequency band 430-450 MHz

LBB6017/90 Central Receiver 8900 601 79001
Intended for operating frequency in the frequency band 450-470 MHz

Accessories

LBB5934 Power Supply 8900 593 40105
Input 100-240 VAC; Output 12 VDC 1.25 A