

LBB 5868 and LBB 5888 DP6000 Paging Transmitters



- Variable output up to 5 W
- Protection against VSWR damage
- Synchronization for low/high frequency
- Frequency bands for VHF and UHF
- Galvanic separation between earths
- 12 V power supply output
- LED status and diagnostic indicators

These paging transmitters are used in an Atus DP6000 digital paging system. The transmitter output power is variable between 0.5 to 5 W. Its aerial output is fully protected against damage from short- or open circuits. Full galvanic separation is available between system earth, antenna earth and sync. earth. The transmitter frequency depends on its high frequency section and should be selected in the range 409-470 MHz (LBB 5868) or 25-50 MHz (LBB 5888). The transmitter has external and internal LED indicators for status overview and troubleshooting diagnostics.

Note Each product is listed in the Ordering Information with the suffix xxy (e.g. LBB 5888/xxy) where xxy indicates the required product frequency for a customer.

Functions

Power supply

An external power supply unit (12 VDC, 2.5 A) is included with the transmitter. A power outlet (12 VDC, 400 mA) is available to supply a central receiver, master sync unit, or desk situated near the transmitter.

Synchronization LF

If one transmitter VHF or UHF cannot cover the required transmission area, subsequent transmitters can be installed in the same system. All system transmitters can be synchronized via a pilot frequency from a master sync unit. An extra pair of wires is required between the master sync. unit and transmitters to carry the pilot frequency.

Synchronization HF

The transmitter (VHF only) is also prepared for High Frequency synchronization with one transmitter used

as separate master, and all other transmitters used as booster (slaves). Coaxial cables connect the master and slave transmitters.

Controls and indicators

External LEDs (status):

- Power on (green LED)
- Transmitter on (yellow LED)

Internal LEDs (diagnostic):

- LF signal
- RF Power OK
- VSWR Error
- LF sync. OK

Interconnections

- Power supply (4-pin mini-fit)
- Patch cable (RJ45)
- Antenna (N-type female)
- HF sync. (VHF BNC female)

Certifications and Approvals Mechanical

CE marking	acc. to Telecom directive 1999/5/EC
Safety:	acc. to IEC/EN 60950-1
EMC	acc. to ETSI EN 301 489-1 acc. to ETSI EN 301 489-2
Telecom	acc. to ETSI EN 300 224-1 acc. to ETSI EN 300 224-2
ESD	acc. to EN 61000-4-2 contact: 8 kV; air: 15 kV
Bump	acc. to IEC 60068-2-29
Vibration	acc. to IEC 60068-2-6
Drop-test	acc. to IEC 60068-2-32
Dust and waterproof	IP 40

Parts Included

Quantity	Component
1	LBB 5868 or LBB 5888 transmitter
1	Power supply
1	Patch cable (2.5 m) with RJ45 connectors

Technical Specifications

Electrical

Power source	100 to 240 VAC
Auxiliary power output	12 V, 400 mA
Power consumption	
LBB 5868 (standby)	310 mA
LBB 5868 (transmitting)	1.5 A
LBB 5888 (standby)	120 mA
LBB 5888 (transmitting)	900 mA
Frequency range	
UHF (LBB 5868)	409 to 470 MHz
(channel spacing/deviation)	12.5 to 2 kHz
	20 to 4 kHz (factory setting)
VHF (LBB 5888)	25 to 50 MHz
(channel spacing/deviation)	10 to 2 kHz (factory setting)
RF output power	0.5 to 5 W (adjustable)
Modulation	FM

Mechanical

Dimensions (H x W x D):	
transmitter	81.5 x 270 x 195 mm
power adapter	80 x 105 x 68 mm
Weight:	
transmitter	2 kg
power adapter	250 g

Environmental

Operating temperature	-20 °C to +55 °C
Storage temperature	-40 °C to +70 °C
Humidity	95% non condensing

Ordering Information

LBB 5868/xy DP 6000 Paging Transmitter LBB5868/00
 UHF, please contact your supplier for the ordering number for your required frequency

LBB 5888/xy DP 6000 Paging Transmitter LBB5888/00
 VHF, please contact your supplier for the ordering number for your required frequency

Accessories

LBB 5993/00 Radiating Coax Cable LBB5993/00
 for use in UHF and VHF where conventional aerials would be impossible or impractical due to lack of space, unusually shaped areas, or aesthetic objections; especially suitable for use in basements, tunnels, and buildings with metal or reinforced concrete partitions

LBB 5334/00 VHF 2-way splitter LBB5334/0
 for HF synchronization; VHF 2-port splitter; attenuation 25 MHz to 50 MHz; 3 dB ± 1 dB

LBB 5334/01 VHF 4-way splitter LBB5334/01
 for HF synchronization; VHF 4-port splitter; attenuation 25 MHz to 50 MHz; 6 dB ± 2 dB