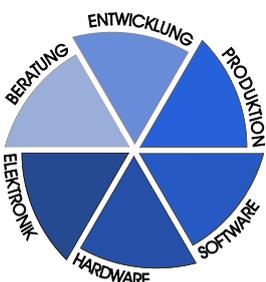


Phone Patch

FT633ÜLE



FunkTronic
Kompetent für Elektroniksysteme

English Version 1.0

Phone Patch FT633ÜLE

The FT633ÜLE is a microprocessor controlled phone patch. It connects your portable and mobile radios to the phone net.

Check the list of functions for your application:

- pulse dialing, multi frequency dialing

Three ways to connect the radio to the phone:

- direct with DTMF
- direct with 5 -, 6 -, 7 - or 8-tone sequence
- short dial with 5-tone sequence

Two ways to connect the phone to the radio:

- direct with DTMF
- automatic phone patch

- call start and end with tone sequence or DTMF
- waiting function if channel is occupied
- for simplex and duplex radios
- voice controlled TX with simplex radios

Programmable automatic chat supervision

- maximum TX on air time
- maximum time of squelch
- maximum no voice time
- maximum conversation duration

Automatic state of the line detection

- busy tone recognition
- dial tone recognition

Programmable busy and dial tone for customize tones.

One additional busy tone in EEPROM

Optionally voice memory for messages during connecting radio to line or vice versa

General functions:

Type of signaling:

- tone sequence
- FFSK
- DTMF
- CTCSS



Tones from table:

- ZVEI
- ZVEI2
- CCIR
- EEA
- length of tone telegram programmable
- external relay stations controlled by CTCSS
- level adjustment of voice signal ways with RS232 interface
- integrated reference tone generator
- potential-free connection of the radio and the phone line
- additional discriminator input
- additional CTCSS output
- TX control with open collector to ground or through phantom-circuit
- control of 7 open collector outputs with 8-tone sequence from the radio
- RS232 interface for programming and adjustment
- stable metal casing or 19 inch boxes
- power supply +12 V/DC (option +24 V/DC) with fuse and wrong connection protection
- approval for **Germany, Netherlands and Austria**

Customized software on request!

Technical data	FT633-ÜLE	FT633-ÜLE-NL/-A
Supply		
Supply voltage standard	+12 V DC -5% +50%	+12 V DC -5% +50%
Supply voltage option	+ 24 V DC -25% +25%	+ 24 V DC -25% +25%
Current consumption	150 mA	150 mA
Input level (RX input)		
Default adjustment	+ 3 dBm	+ 3 dBm
Range of adjustment	- 30 dBm to +4 dBm	- 30 dBm to +4 dBm
Input impedance	600 Ohm	600 Ohm
Output level (TX output)		
Default adjustment	- 17 dBm	- 17 dBm
Range of adjustment	- 30 dBm to +3 dBm	- 30 dBm to +3 dBm
Output impedance	600 Ohm	600 Ohm
Input level (Discriminator input)		
Default adjustment	-10 dBm	-10 dBm
Range of adjustment	- 20 dBm to 0 dBm	- 20 dBm to 0 dBm
Input impedance	> 22 kOhm	> 22 kOhm
Output level (CTCSS output)		
Default adjustment	-10 dBm	-10 dBm
Range of adjustment	- 14 dBm to +3 dBm	- 14 dBm to +3 dBm
Output impedance	30 Ohm	30 Ohm
Input level (Line input)		
Default adjustment	- 10 dBm	- 10 dBm
Range of adjustment	- 15 dBm to - 1 dBm	- 19 dBm to - 6 dBm
Output level (Line output)		
Default adjustment	- 10 dBm	- 10 dBm
Range of adjustment	- 16 dBm to - 4 dBm	- 14 dBm to - 4 dBm
Weight		
Standard version	970 g	970 g
19 inch box	CPU: 430 g TIM: 390 g	CPU: 430 g TIM: 390 g
Dimensions (B x T x H)		
Standard version	131 x 196 x 70 mm	131 x 196 x 70 mm
19 inch box	35 x 185 x 128 mm	35 x 185 x 128 mm