

GSM HYBRID WEBSITE DATA

DESCRIPTION

With the D&R GSM Hybrid you can add a simple and effective wireless interface that your reporters can call.

With features like HD voice, Echo canceling, digital EQ and application control over USB on your PC it is a nice tool to expand the communication possibilities of your studio with your reporters in the field.

The GSM Hybrid has its own number reporters directly can dial, the call can be taken on the mixing console due to built in GPIO's.

The electronics are housed in a sturdy metal 9.5" rack mount case with antenna's on the front side for optimum receiver conditions.

An external 12 volt power supply adapter is part of the delivery. Software features are in and output metering and level control, phone dialing, number recognition and GSM signal strength indication.

The Alert feature is implemented to let a reporter in the field 'wake-up' a DJ behind the desk to start an interview. Assumed is that a connection is already there and the DJ is doing some other work in the studio while the reporter waits for the moment to start the interview. On that moment the reporter only has to press the '0' on his phone to Alert the DJ. In the main window of the GSM Hybrid Control application the background starts blinking red for 2 seconds. Also the GPO output alternates with this Alert signal. Doing so, the DJ knows the reporter is ready for the interview and he can mix in the reporter to the show.

FEATURES

- HD-Voice (AMR-WB/G722.2)
- Balanced Audio in/Out
- Echo cancelling
- Digital EQ Control
- Configurable AGC
- PC control application via USB
- Also for mobile applications 12 volt DC car battery powered
- Ideal for areas without land lines
- Ideal for OB vans
- Simple GPIO Interfacing with alert on jacks
- Voice quality improvement over ordinary Hybrids

Software

- Input and output level meters (ppm)
- Input and output gain adjust
- Software keypad dialing
- Number recognition
- Built in address book
- GPIO configuration
- GSM signal strength indicator
- Easy sim card changing
- Dual diversity antenna's
- More units in 1 software application possible
- Alert function with "open line via DTMF" on screen and GPO

SPECIFICATIONS

Line input: Balanced, 20kOhm
 +22dBu max,

Frequency response: 50Hz up to 7000Hz (voice HD subscription only)

Output: Balanced, 50Ohm
 +21.5dBu max
USB: USB 1.1
GPO: Opto Fet 60V/550mA
 Pmax=500mW
GPI: Pulldown to GND.
Tip: use opto coupler.
GSM Bands: GSM 850/900/1800/1900MHz for 3G and 4G
Antenna: SMA connector

DIMENSIONS/WEIGHT

Left-Right : 241mm (9,5 inch)
Front thickness : 3mm
Front to back : 174mm
Height : 44mm (1HE)
Weight : 2kg
Power : 90-230volt 50/60Hz
Voltage : 12Vdc
Supply Current : 1 Amp
The D&R GSM Hybrid uses the following GSM bands

FDD LTE : B1/B3/B5/B7/B8/B20
UMTS : B1/B5/B8
GSM : 850/900/1800/1900MHz

and can be used in the following areas.

1. North American Region (Canada and the US) Caribbean and Latin America.
(GSM-850 & PCS-1900)
2. Europe, the Middle East and Africa, Asia-Pacific
(E-GSM-900 & DCS-1800)

See also this WIKIPEDIA page for more detailed info.

GSM Certificate Approvals:

CE/ FCC/ IC/ KC/ NCC/ OFCA/ GCF/ PTCRB/ RCM/ SKT/ AT&T/ Rogers/ ANATEL/ Vodafone/ TA/ NAL/JATE/
TELEC/ DoC_For_Russia

DOWNLOADS

<http://www.d-r.nl/assets/gsm-brochure.pdf>

<http://www.d-r.nl/assets/gsm-hybrid-manual-1.3.pdf>

[http://www.quectel.com/UploadFile/Product/Quectel UC20 UMTS%20HSPA Specification V1.7.pdf](http://www.quectel.com/UploadFile/Product/Quectel_UC20_UMTS%20HSPA_Specification_V1.7.pdf)

<http://www.d-r.nl/gsm-hybrid.html>