TDM 1630

FULL DUPLEX DIGITAL MOBILE AUDIO LINK

- TDM 1630 equipment is a digital transceiver designed to be used as a professional full duplex audio link for contribution in radio broadcasting.
- It is made of all necessary components to process audio from analog to digital, and modulate carrier uplink, and the opposite processes in downlink.
- **It works in just one frequency for uplink and downlink**. In this way, we will get a **mobile broadcast quality full duplex audio link** with only a pair of TDM 1630 equipment.
- The high output power and reception sensitivity makes it a highly useful system for live news gathering.

TECHNICAL SPECIFICATIONS:

Radio

Frequency:	From 175 MHz to 900 MHz (window of 7%) under demand
Number of channels:	10 (other under demand)
Media Access:	Simultaneous TDM FULL-DUPLEX Tx & Rx
Modulation:	FDMW2
Error Correction:	REED – SOLOMON FEC
Synthesizer resolution:	4,7 Hz
Spurious emissions:	Complying with the ETSI specifications ETS 300 454
Data Rate (uplink & downlink):	250 kbps
Adjacent Channel Reject:	>60 dB
Locking:	>75 dB with 1 MHz
Nominal deviation:	±65 KHz
Output power:	Up to 30W
Output/Input impedance:	50 Ω
Rx sensitivity:	Better than -100 dBm for packet error rate <5*10A
Complying:	ETSI, FCC and ARIB

Audio

Audio Output/Input:	600 Ω
Uplink audio bandwidth:	7,5 KHz / 15 KHz
Downlink audio bandwidth:	7,5 KHz / 15 KHz
Distortion:	< 0,3%
Coding:	WAC 64 kbps
Sampling Frequency:	16 KHz / 32 KHz
SNR:	>85 dB
Audio Output Level:	+10 dBm max.

General

Micro/Line selector	
¼" Jack connector with adjustable level headset output	
XLR3 Micro/line balanced input	
Balanced line XLR3 output	
Antenna connector:	N type
RF level and error correction indications	
Temperature range:	-45°C to +80°C
Measurements:	2U 19" x 250 mm
Weight:	3 kg
Power Supply:	DC 12V / AC 220V (automatic switchover)

Specifications subject changes without notice.