

Specifications

General

Frequency Range	VHF: 136-174MHz UHF1: 400-470MHz UHF3: 350-400MHz UHF2: 450-520MHz
Channel Capacity	128
Channel Space	12.5 /20/25KHz
Dimensions(H*W*D)	44*483*375mm
Weight	7.6Kg
LCD	1.8 inch TFT LCD 128x160 pixels,262Kcolors
Operating Voltage	DC 13.6V±15% AC 100 - 240VA
Current Drain	<1A(Standby) <6A(Transmit@25W) <10A(Transmit@50W)
Frequency Stability	0.5ppm
Continuous duty Cycle	100%

Transmitter

Frequency Stability	0.5ppm
RF Max. Power Output	High Power Model: 45/50W Low Power Model: 25W
Digital Modulation	7K60FXD(Data Only) 7K60FXW(Data and Voice)
FM Modulation	16K ∅ F3E@25KHz / 14K ∅ F3E@20KHz 11K ∅ F3E@12.5KHz
4FSK Modulation Accuracy	5%
4FSK BER	0%
4FSK and Magnitude Error	5%/1%
Adjacent Channel Power	70dB@25/20KHz / 60dB@12.5KHz
Conducted and Radiated Emission	-36dBm <1GHz / -30dBm >1GHz
Transmission Deviation limits	5KHz@25KHz / 4KHz@20KHz /2.5KHz@12.5KHz
Audio Distortion	3%
Hum and Noise	48dB@25KHz / 46dB@20KHz 43dB@12.5KHz
Audio Response	+1 ~ -3dB

Receiver

Digital Sensitivity	-120dBm / BER 5% -116dBm / BER 1%
Digital Dynamic Faded Sensitivity (100KM/H& 8KM/H Rayleigh Fading)	-104dBm
Analog Sensitivity	-120dBm / 12dB SINAD
Intermodulation	75dB (TIA603) / 70dB(ETSI)
Blocking	95dB (TIA603 & ETSI)
Spurious Response Rejection	75dB (TIA603 & ETSI)
Adjacent Channel Selectivity	75dB@25 KHz (TIA603) 70dB@25 KHz (ETSI) 70dB@20KHz (TIA603 & ETSI) 65dB@12.5KHz (TIA603) 60dB@12.5 KHz (ETSI)
Conducted Spurious Emission	-57dBm
Rated Audio Power Output	1W (16Ω Load)
Rated Audio Distortion	3%
Hum and Noise	48dB @25KHz / 46dB@ 20KHz 43dB@12.5KHz
Audio Response	+1 ~ -3dB
Digital Vocoder Type	AMBE++
Digital Protocol	ETSI-TS102 361 -1, -2,-3,-4

Reliability

Operating Temperature	-30 ~ +60 C
Storage Temperature	-40 ~ +85 C
Shock&Vibration	MIL-STD-810 C/D/E/F/G Standard
ESD	IEC 61000-4-2(level 4) ±8KV(Contact) , ±15KV(Air)
Surge Immunity Test (EN 6100-4-5)	Differential Mode:6KV Common Mode:6KV



EXCERA
Innovate to Succeed

DMR Basestation Repeater ER9000

- ◆ 19 Inches, 1U Cabinet Size Design with Power Supply Inside
- ◆ 100% Continuous Duty Cycle with 50W High Power Output
- ◆ DMRA AIS Application Successful Solution
- ◆ Upgrade to DMR Trunking and Simulcast Basestation Transceiver



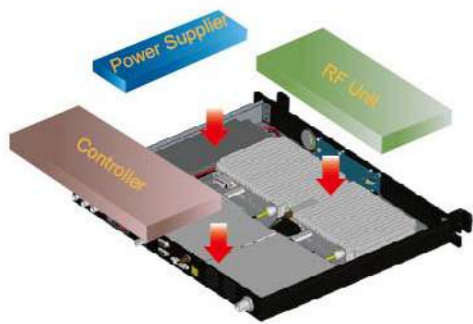
SHENZHEN EXCERA TECHNOLOGY CO.,LTD.
www.excera.com.cn

Advantage Features

19 inches, 1U standard cabinet size design with power supply inside.



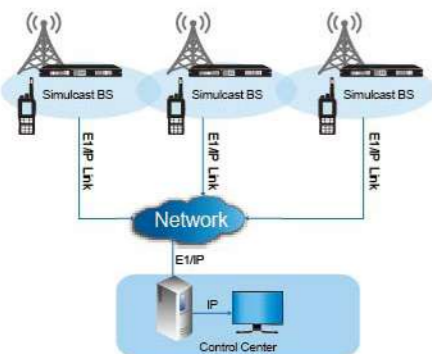
100000hours MTBF performance based on military modular design with high reliability.



Supports multi-site IP connection allowing wide area coverage and cross bands communication.(30 Sites)



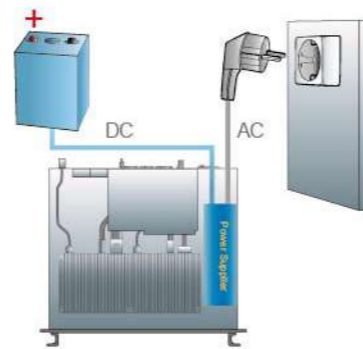
Can be upgraded to DMR Tier II simulcast basestation transceiver by software license.



Unique 100% duty cycle at 50W high power output in 1U cabinet.



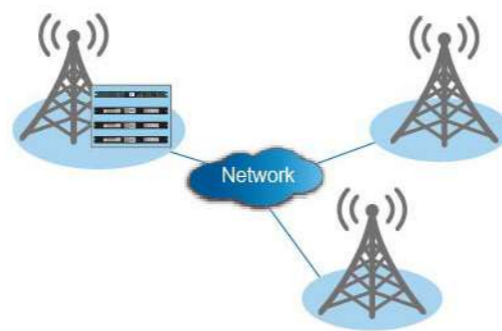
Supports AC/DC power supply and switches to the backup battery automatically when AC power is interrupted with the built-in float circuit design.



Supports remote diagnosis, maintenance and software upgrade.



Can be upgraded to Excera Easy Trunk basestation transceiver or DMR Tier III basestation transceiver by software license.



Advantage Features

DMRA AIS Application Solutions and Partners.



<http://www.nowatel.com/>



<http://www.safemobile.com>



<http://www.awcsl.com>



<http://omnitronicsworld.com>

Accessories

				
Duplexer EDU001/ EDU002/ EDU003	AC Power Cable EPWCDZ01	Power Cord EPWCAZ01	Programming Cable EPC03	Fuse EACC001

Excera retains right to change the products design and specification without prior notice. Parts supply for the market is different, please contact the local dealer. Promotional photos are for reference only. All products as per the material subjects.