

144, 430/440, 1200 MHz ALL MODE TRANSCEIVER



Direct Sampling Now Enters the VHF/UHF Arena

All mode, tri-band transceiver covering the 144, 430/440 as well as 1200 MHz

o ICOM

> New PA provides a powerful 100 W (144 MHz), 75 W (430/440 MHz) and 10 W (1200 MHz) output

Follows lcom's center display design style with a 4.3 inch touch screen color TFT LCD

Smooth satellite operation with normal/ reverse tracking and 99 satellite channels Real-time, high-speed spectrum scope for the 144, 430/440, 1200 MHz bands

Dualwatch operation and full-duplex operation in the satellite mode

D-STAR provides digital clear audio and Internet capable communication

Digital Data (DD) mode provides 128 kbps data communication

9700

GENERAL

Frequency coverage:	
<usa version=""></usa>	144.000–148.000, 430.000–450.000, 1240.000–1300.000 MHz
<eur version=""></eur>	144.000–146.000, 430.000–440.000, 1240.000–1300.000 MHz
Mode:	SSB, CW, RTTY, AM, FM, DV, DD
Number of channels:	107 (99 Simplex + 6 Program scan edges + 2 CALL) × 3 bands,
	99 (Satellite), 2000 (DR function)
Antenna connectors:	144 MHz SO-239 (50 Ω),
	430/440, 1200 MHz Type-N (50 Ω)
Power supply requirement:	13.8 V DC ±15% (Negative ground)
Power consumption:	TX Less than 18 A (High power)
	RX 1.2 A typical (Standby), Less than 1.8 A (Maximum audio)
Operating temperature range:	-10 °C to + 60 °C; 14 °F to 140 °F
Frequency stability:	Less than \pm 0.5 ppm (–10°C to + 60°C; 14°F to 140°F)
Frequency resolution:	1 Hz
Dimensions:	$240 \times 94 \times 238$ mm, $9.4 \times 3.7 \times 9.4$ in (W \times H \times D, projections not included)
Weight:	4.7 kg, 10.4 lb (approximate)

TRANSMITTER

Output power:	<ssb cw="" dd="" dv="" fm="" rtty=""> <am></am></ssb>			
 144 MHz	0.5–100 W	0.125–25 W		
430/440 MHz	0.5–75 W	0.125–18.75 W		
1200 MHz	0.1–10 W	0.025–2.5 W		
Modulation system:				
SSB	Digital PSN modulation			
FM	Digital Reactance modulation			
AM	Digital Low Power modulation			
DV	Digital GMSK Reactance modulation			
DD	Digital Quadrature modulation			
Spurious emissions:	<harmonics></harmonics>	<out-of-band emission=""></out-of-band>		
144 MHz	Less than –63 dB	Less than -60 dB		
430/440 MHz	Less than –61.8 dB	Less than -60 dB		
1200 MHz	Less than –53 dB	Less than –50 dB		
Carrier suppression:	More than 50 dB			
Unwanted sideband:	More than 50 dB			
Microphone impedance:	600 Ω			

RECEIVER

Receiver system:	144, 430/440 MHz RF Direct Sampling			
	1200 MHz Down Conversion IF Sampling			
Intermediate frequency:	y: 311–371 MHz (1200 MHz)			
Sensitivity (Preamp: ON, F	tivity (Preamp: ON, Filter: SOFT):			
SSB/CW (10 dB S/N)	Less than 0.11 µV			
AM (10 dB S/N)	Less than 1.0 µV			
FM (12 dB SINAD)	Less than 0.18 µV			
DV (1% BER) (PN9)	Less than 0.35 µV			
DD (1% BER) (PN9)	Less than 1.59 µV			
Selectivity (Filter: SHAPE)	:			
SSB (BW=2.4 kHz)	More than 2.4 kHz/-3 dB,	Less than 3.6 kHz/–60 dB		
CW (BW=500 Hz)	More than 500 Hz/-3 dB,	Less than 700 Hz/–60 dB		
RTTY (BW=500 Hz)	More than 500 Hz/-3 dB,	Less than 700 Hz/–60 dB		
AM (BW=6 kHz)	More than 6 kHz/–3 dB,	Less than 15 kHz/–60 dB		
FM (BW=15 kHz)	More than 12 kHz/-6 dB,	Less than 20 kHz/–60 dB		
DV (12.5 kHz spacing)	More than –50 dB			
DD (300 kHz spacing)	More than -40 dB			
Spurious and image rejection ratio:				
SSB/CW	SSB/CW 144, 430/440 MHz More than 70 dB, 1200 MHz More than			
AM/FM/DV	144, 430/440 MHz More t	than 60 dB, 1200 MHz More than 50		
DD	DD 1200 MHz More than 50 dB			
Audio output power:	More than 2.0 W (1 kHz, 1	0% distortion) into an 8 Ω load		

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dB

dB

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OPTIONS









SP-38 High quality audio and matching height Maximum input: 7 W

External speaker (2 m, 6.6 ft cable)

External speaker with two input lines

Compact, lightweight electret desktop microphone

PS-126

output)

DC power supply (13.8 V DC, 25 A maximum



RS-BA1 Version 2 IP remote control software



RS-MS1A Remote control application for Android[™]. Download free from Google Play[™].

- MB-118 Mobile mounting bracket Carrying handle
- MB-123 • OPC-2350LU PC/Android™ data cable • SM-30
- SP-35 • SP-41
- CS-9700 Programming software

SUPPLIED ACCESSORIES

• HM-219, hand microphone • DC power cable

