

Voice and Data Communications in One Package! DR-135(144MHz),DR-235(220MHz),DR-435(430MHz)

- Large Alphanumeric Display, up to 7 characters
- 100 memory channels
- Conventional or narrow FM modes
- Great for APRS operations
- Ignition key on / off feature
- Front panel data / GPS / theft alarm / wire cloning port
- Rear panel computer port
- Theft alarm feature
- Four scan modes VFO, Memory, CTCSS tone, DCS tone
- AM Air band Reception (DR-135T / 235T only)
- EJ-41U TNC can be ordered already installed or added later
- Choose black or pewter colored face plate
- Rugged construction
- Direct frequency entry from DTMF microphone*
- New backlit keys on DTMF mic
- Autodial memories (10)
- Instantly switch from voice to data (packet) mode
- Retains mode and TNC settings through power on/off cycles
- Easy to program and operate
- Three output power settings

APRS is a trademark of Bob Bruninga, WB4APR

* This feature is not available on earlier versions of DR135.

VOICE/DATA MOBILE TRANSCEIVER

DR-135/235/435

(144MHz) (220MHz) (430MHz)



User Friendly Dualband

- Cable cloning capability with other DR-605 units
- Channel only display mode
- 9600 bps packet port
- Scanning functions
- Large heat sink does away with need for ventilation fan
- External speaker port
- CTCSS encoder 50 tones Decoder (optional EJ24U)
- Output 144 MHz 50W / 430 MHz 35 W
- 100 memories + 2 call channels

144/430MHz FM DUAL BAND
MOBILE TRANSCEIVER

DR-605



Full-Featured Dualband with Channel Scope™

- RF attenuator
- Multiple scan functions
- S-meter squelch function
- Time out timer
- Automatic power off
- 1200 / 9600 packet compatible
- Remote control via DTMF mic
- Internal duplexer
- DTMF squelch function
- AM Airband Receive (DR-610T only)
- 120 memories + 2 call channels

144/430MHz FM DUAL BAND
MOBILE TRANSCEIVER

DR-610



Work the world on 6 Meters!

- 100 memories, plus a call channel
- 20W / 2W output power
- CTCSS encoder (50 Tones) Decoder (optional EJ-20U)
- Adjustable Repeater Offset for each memory channel
- T.O.T. Time out timer

50MHz FM MOBILE TRANSCEIVER

DR-M06



MOBILE SPECIFICATIONS

General	DR-135	DR-235	DR-435	DR-605	DR-610	DR-M06	
Frequency coverage	T/TG: TX 144~147.995MHz RX 118~135.995MHz(AM) 136~173.995MHz E/EG: TX/RX 144~145.995MHz TA/TAG: TX 136~173.995MHz RX 118~135.995MHz(AM) 136~173.995MHz	T/TG: TX 222 ~224.995MHz RX 216 ~279.995MHz (FM/AM)	T/TG: TX 430 ~449.995MHz RX 350 ~511.995MHz E/EG: TX/RX 430 ~439.995MHz	T: TX 144~147.995MHz 430~449.995MHz RX 136~173.995MHz 420~470MHz E: TX/RX 144~145.995MHz 430~439.995MHz	T: TX 144~147.995MHz 438~449.995MHz RX 108~173.995MHz 420~470MHz E: TX/RX 144~145.995MHz 430~439.995MHz		50~54MHz
Mode	16K0F3E(Wide mode FM) 8K50F3E(Narrow mode FM) (RX only A3E(AM) DR135T/TG/TA/TAG)	16K0F3E(Wide mode FM) 8K50F3E(Narrow mode FM)	16K0F3E(Wide mode FM) 8K50F3E(Narrow mode FM)	F3E(FM)	F2E, F3E(FM) (RX only A3E(AM)DR-610T)	F3E(FM)	
Channel steps	5.8,33,10,12.5,15,20,25,30,50kHz	5.8,33,10,12.5,15,20,25,30,50kHz	5.8,33,10,12.5,15,20,25,30,50kHz	5,10,12.5,15,20,25,30,50kHz	5,10,12.5,15,20,25,30,50kHz	5,10,12.5,15,20,25kHz	
Memory channels	100 channels+1CALL channel	100 channels+1CALL channel	100 channels+1CALL channel	100 channels+2CALL channel	120 channels+2CALL channel	100 channels+1CALL channel	
Antenna impedance	50Ω unbalanced	50Ω unbalanced	50Ω unbalanced	50Ω unbalanced	50Ω unbalanced	50Ω unbalanced	
Frequency stability	±5ppm	±5ppm	±5ppm	±10ppm	±7ppm	±7ppm	
Power supply requirement	13.8V DC ±15% (negative ground)	13.8V DC ±15% (negative ground)	13.8V DC ±15% (negative ground)	13.8V DC ±10% (negative ground)	13.8V DC ±10% (negative ground)	13.8V DC ±10% (negative ground)	
Current drain	Approx. 11.0A TX High Approx. 0.4A Squelched	Approx. 8.0A TX High Approx. 0.4A Squelched	Approx. 10.0A TX High Approx. 0.4A Squelched	Approx. 11.5A TX High Approx. 1.1A RX max.	Approx. 11.5A TX High Approx. 1.2A RX max.	Approx. 3.0A TX High Approx. 0.6A RX max.	
Usable temperature range	-10~+60°C(14~140°F)	-10~+60°C(14~140°F)	-10~+60°C(14~140°F)	-10~+60°C(14~140°F)	-10~+60°C(14~140°F)	-10~+60°C(14~140°F)	
Dimensions (Projections not included)	142(W)×40(H)×174(D)mm 5.59"(W)×1.57"(H)× 6.85"(D)inches	142(W)×40(H)×174(D)mm 5.59"(W)×1.57"(H)× 6.85"(D)inches	142(W)×40(H)×174(D)mm 5.59"(W)×1.57"(H)× 6.85"(D)inches	140(W)×40(H)×176(D)mm 5.51"(W)×1.57"(H)× 6.93"(D)inches	140(W)×40(H)×162(D)mm 5.51"(W)×1.57"(H)× 6.38"(D)inches	140(W)×40(H)×154(D)mm 5.51"(W)×1.57"(H)× 6.06"(D)inches	
Weight	Approx. 1.0kg(35.27oz)	Approx. 1.0kg(35.27oz)	Approx. 1.0kg(35.27oz)	Approx. 1.1kg(38.8oz)	Approx. 1.1kg(38.8oz)	Approx. 860g(30.3oz)	

Transmitter

Output power	Approx. 50W High (144~148MHz) more than 33W High (136~174MHz) Approx. 10W Mid Approx. 5W Low	Approx. 25W High Approx. 10W Mid Approx. 5W Low	Approx. 35W High Approx. 10W Mid Approx. 5W Low	Approx. 50W High VHF Approx. 35W High UHF Approx. 5W Low	Approx. 50W High VHF Approx. 35W High UHF Approx. 10W Mid Approx. 5W Low	Approx. 20W High Approx. 2W Low
Modulation system	Variable reactance frequency modulation	Variable reactance frequency modulation	Variable reactance frequency modulation	Variable reactance frequency modulation	Variable reactance frequency modulation	Variable reactance frequency modulation
Spurious emissions	Less than -60dB	Less than -60dB	Less than -60dB	Less than -60dB	Less than -60dB	Less than -60dB
Max. frequency deviation	±5kHz(Wide mode) ±2.5kHz(Narrow mode)	±5kHz(Wide mode) ±2.5kHz(Narrow mode)	±5kHz(Wide mode) ±2.5kHz(Narrow mode)	±5kHz	±5kHz	±5kHz

Receiver

Receive system	Double conversion superheterodyne	Double conversion superheterodyne	Double conversion superheterodyne	Double conversion superheterodyne	Double conversion superheterodyne	Double conversion superheterodyne	
Intermediate frequencies	1st: 21.7MHz 2nd: 450kHz	1st: 30.85MHz 2nd: 455kHz	1st: 30.85MHz 2nd: 455kHz	1st: 21.7MHz 2nd: 450kHz(VHF) 1st: 30.85MHz 2nd: 455kHz(UHF)	1st: 45.1MHz(VHF) 58.3MHz(UHF) 2nd: 455kHz	1st: 10.7MHz 2nd: 455kHz	
Sensitivity(FM) (12dB SINAD)	Less than -16.0dBμ	Less than -16.0dBμ	Less than -16.0dBμ	Less than -16.0dBμ	Less than -16.0dBμ (Main band) Less than -13.0dBμ (Sub band)	Less than -16.0dBμ	
Selectivity	-6dB: 12kHz or more -60dB: 28kHz or less (Wide mode) -6dB: 6kHz or more -60dB: 16kHz or less (Narrow mode)	-6dB: 12kHz or more -60dB: 28kHz or less (Wide mode) -6dB: 6kHz or more -60dB: 16kHz or less (Narrow mode)	-6dB: 12kHz or more -60dB: 28kHz or less (Wide mode) -6dB: 6kHz or more -60dB: 16kHz or less (Narrow mode)	-6dB: 12kHz or more -60dB: 28kHz or better	-6dB: 12kHz or more -60dB: 28kHz or better	-6dB: 12kHz or more -60dB: 30kHz or better	-6dB: 12kHz or more -60dB: 30kHz or better
Audio output power	More than 2W (at 8Ω 10% THD)	More than 2W (at 8Ω 10% THD)	More than 2W (at 8Ω 10% THD)	More than 2W (at 8Ω 10% THD)	More than 2W (at 8Ω 10% THD)	More than 2.5W (at 8Ω 10% THD)	

RECEIVER SPECIFICATIONS

General	DJ-X2	DJ-X10	DJ-X2000
Frequency coverage	T: 0.530~823.995MHz, 850.000~868.995MHz 895.000~999.995MHz E: 0.522~999.995MHz	0.1~2000MHz*	0.1~2150MHz*
Mode	FM, WFM, AM	USB/LSB, CW, AM, FM, WFM	USB/LSB, CW, AM, FM, WFM
Memory channels	700 channels	1200 channels	2000 channels
Antenna connector	SMA(50Ω unbalanced)	BNC(50Ω unbalanced)	BNC(50Ω unbalanced)
Frequency stability	±5ppm	±10ppm	±2.5ppm
Power supply	3.8V DC(Internal Lithium-ion battery) 4.5V DC(when using EDH-27) Negative ground	4.8~6V DC(Internal battery) 9~16V DC(External regulated source) Negative	4.8~7.2V DC(Internal battery) 10~16V DC(External regulated source) Negative ground
Current drain	approx. 80mA approx. 25mA Battery save on(1:4)	approx. 200mA at normal AF output approx. 140mA Squelched approx. 30mA Battery save on(1:4)	approx. 150mA at normal AF output approx. 100mA Squelched approx. 50mA Battery save on(1:4)
Usable temperature range	-10~+60°C(14~140°F)	-10~+50°C(14~122°F)	-10~+50°C(14~122°F)
Dimensions (Projections not included)	58(W)×90(H)×15(D)mm 2.28"(W)×3.54"(H)×0.59"(D)inches	57(W)×150(H)×27.5(D)mm(with EBP-37N) 2.24"(W)×5.91"(H)×1.08"(D)inches	57(W)×150(H)×27.5(D)mm(with EBP-37N) 2.24"(W)×5.91"(H)×1.08"(D)inches
Weight	Approx. 85g(3oz.) (Lithium-ion battery inclusive)	Approx. 320g(11.29oz.) (with EBP-37N)	Approx. 320g(11.29oz.) (with EBP-37N)

Receiver

Receive system	Triple conversion superheterodyne	Triple conversion superheterodyne	Triple conversion superheterodyne
Intermediate frequencies	1st: 248.45MHz, 2nd: 38.85MHz, 3rd: 450kHz	1st: 736.25/275.45MHz, 2nd: 45.05MHz 3rd: 450kHz/10.7MHz(WFM)	1st: 814.5/304.3MHz, 2nd: 45.05MHz 3rd: 455kHz/10.7MHz(WFM)
Sensitivity(typ.) (SSB/AM at 10dB S/N) (FM/WFM at 12dB SINAD)	AM(0.5~1.62MHz): 17dBμ(7.1μV) (1.62~30MHz): 3dBμ(1.4μV) (108~136MHz): 6dBμ(2.0μV) (222~333MHz): 5dBμ(1.8μV) NFM(30~108MHz): 4dBμ(0.63μV) (136~222MHz): 8dBμ(0.4μV) (222~470MHz): 6dBμ(0.5μV) (470~770MHz): 5dBμ(0.56μV) (770~1000MHz): 3dBμ(0.71μV) WFM(76~108MHz): 10dBμ(3.2μV) (175~222MHz): 7dBμ(2.2μV) (470~770MHz): 10dBμ(3.2μV)	SSB(0.5~5MHz): -6dBμ(0.5μV) (5~30MHz): -12dBμ(0.25μV) (30~1000MHz): -6dBμ(0.5μV) AM(0.1~0.5MHz): 20dBμ(10μV) (0.5~5MHz): 3.5dBμ(1.5μV) (5~30MHz): 0dBμ(1μV) (30~1000MHz): 0dBμ(1μV) NFM(5~30MHz): -9dBμ(0.35μV) (30~1000MHz): -12dBμ(0.25μV) (1000~1300MHz): 3.5dBμ(1.5μV) (1300~1999MHz): 20dBμ(10μV) WFM(30~1000MHz): 3.5dBμ(1.5μV)	SSB, CW(0.1~5MHz): -4dBμ(0.6μV) (5~900MHz): -6dBμ(0.5μV) (900~2150MHz): 0dBμ(1μV) AM(0.1~5MHz): 3.5dBμ(1.5μV) (5~900MHz): 0dBμ(1μV) NFM(5~900MHz): -6dBμ(0.5μV) (900~2150MHz): 6dBμ(2μV) WFM(5~900MHz): 6dBμ(2μV) (900~2150MHz): 12dBμ(4μV)
Selectivity	AM/FM -6dB: 12kHz or more, -60dB: 30kHz or less WFM -6dB: 150kHz or more	AM/FM -6dB: 15kHz or more, -60dB: 30kHz or less WFM -6dB: 150kHz or more	AM/FM -6dB: 15kHz or more, -60dB: 30kHz or less WFM -6dB: 200kHz or more
Audio output power	More than 30mW(8Ω 10% THD)	More than 100mW(8Ω 10% THD)	More than 100mW(8Ω 10% THD)

*U.S. Version(X10T)cellular blocked.

*U.S. Version(X2000T)cellular blocked.