

# The Optimal Radio Transceiver For Telemetry Applications



## BSR100™-VHF, BSRU100™-UHF

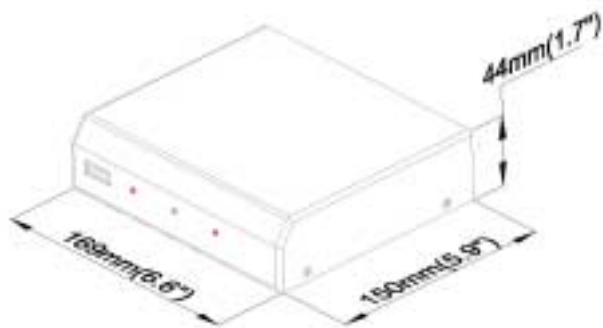
The BSR100 and BSRU100 are excellent 10-Watt Synthesized long-range Radio Transceivers for VHF and UHF narrow-band wireless telemetry data applications. Acting as the interface between the Radio frequency and data signaling, the BSR100 and BSRU100, together with modem circuitry, comprises a perfect point to point and point to multipoint RF modem, capable of handling data rates of up to 20 KBIT per second.

### Important Features:

- Very Reliable
- Compact
- Robust Construction
- Low Standby Current
- Up to 20 Kbit/Second-on wide bandwidth
- Front Panel diagnostics and control
- VHF/UHF
- 12 VDC operation
- Convenient 15 Pin D type interface connector
- Wide operating temperature range
- Fully programmable by PC

**KP** ELECTRONIC  
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## Specifications

### BSR100

### BSRU100

Power Supply	DC Input 10-15 VDC, 140mA standby, 3A max during transmission	
Frequency	VHF synthesized in sub bands UHF	
	136-155 MHz [P.N BSR100L] 155-174 MHz [P.N BSR100H]	410-430 MHz [P.N BSRU100L1] 430-450 MHz [P.N BSRU100L] 450-470 MHz [P.N BSRU100M] 470-490 MHz [P.N BSRU100H] 490-510 MHz [P.N BSRU100H1]
Channel spacing	*6.25kHz ; 12.5kHz ; 25kHz*	
<b>RF Transmitter</b>		
Modulation	FM,FSK and DFM	
Frequency stability	±2.5ppm at -30°C to 60°C (23°F to 141°F)	
Spurious Emission	-70dBc	
Modulation Acceptance	10 KBIT/SEC on 12.5kHz channel and 20KBIT/SEC on 25kHz channel	
Bandwidth		
RF Output impedance	50Ω BNC connector, single or seperate connector for receive and transmit	
Max Deviation	±5.5 kHz	
Power out	10 Watt Nominal	
<b>RF Receiver</b>		
Sensitivity	-117dBm [12dB sinad]	
Selectivity	60dB for 12.5kHz ,70dB for 25kHz	
Image rejection	65db min	
Data/Audio in impedance:	>100KΩ	
Data/Audio out impedance:	1KΩ	
<b>General</b>		
Operating Temp.	-30°C to +60°C (-54°F to +108°F)	
Storage Temp.	-40°C to +80°C (-72°F to +144°F)	
Control Connector	Rear panel: 15 Pin D type with: PTT, CM, Audio in, Audio out, data in dada out and programming. Front Panel: 10 Pin Hader for Control and programming	
Physical Dimension	169x150x44mm (6.6_x5.9_x1.7_)	
Weight	0.65 Kg (1.44 Lbs.)	
<b>Programming:</b>	Using PC utility program GUP10™ via 10 pin front panel connector	
Channel Switching	"ON THE FLY" via 15-pin rear panel connector with 100msec settling time	

\* will be available in 2002

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