

MICOM™-LINK

SSB-FM REPEATER UNIT



The MICOM-LINK is a cross band repeater unit that provides manually determined interconnectivity between HF/SSB and UHF/VHF radios. It is most commonly used to provide a communications path from local area UHF/VHF FM handie-talkies through the AM HF/SSB long-haul backbone to a Communications Center often hundreds of miles distant.

Features

- FM Network Range Extension via HF-SSB radio.
- Mobile and Fixed Installation.
- Local Monitoring with Operator Override Capability.
- Reliable Voice Activation Using Patented Voice Recognition Squelch.
- Compatible with Motorola FM and HF/SSB Radios.
- Audible Retransmission Indication.
- Protected Against FM Network Lockup.
- Rugged to MIL-STD-810E.



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SSB-FM REPEATER UNIT

Model number	FDN 6123
Audio Input (from SSB receivers)	-20 to +10 dBm, across 600 ohms (floating)
Audio Outputs: 1. To FM transmitter 2. To SSB transmitter 3. Internal Speaker (4 ohms)	- 4 dBm ± 3 bBm across 600 ohms (floating) -16 dBm± 4dBm across 600 ohms (floating) 4 watts at 3% THD
Primary Voltage DC negative ground	13.8 Volts ± 20%
Current Drain (Maximum)	1 Amp at full audio outputs
Operating Temperature Range	- 30°C to + 60°
Grounding	All inputs and outputs are isolated from unit chassis
Voice operated Ptt	constant SINAD squelch
Dimensions	(HxWxD): 60 mm x 170 mm x 280 mm
Weight	1.4 Kgs
Humidity:	95%at 50°C
Vibration:	ELA RS152B and RS204C, MIL-STD-810C, Method 5146.2
Shock:	ELA RS152B and RS204C, MIL-STD-810C, Method 516.2

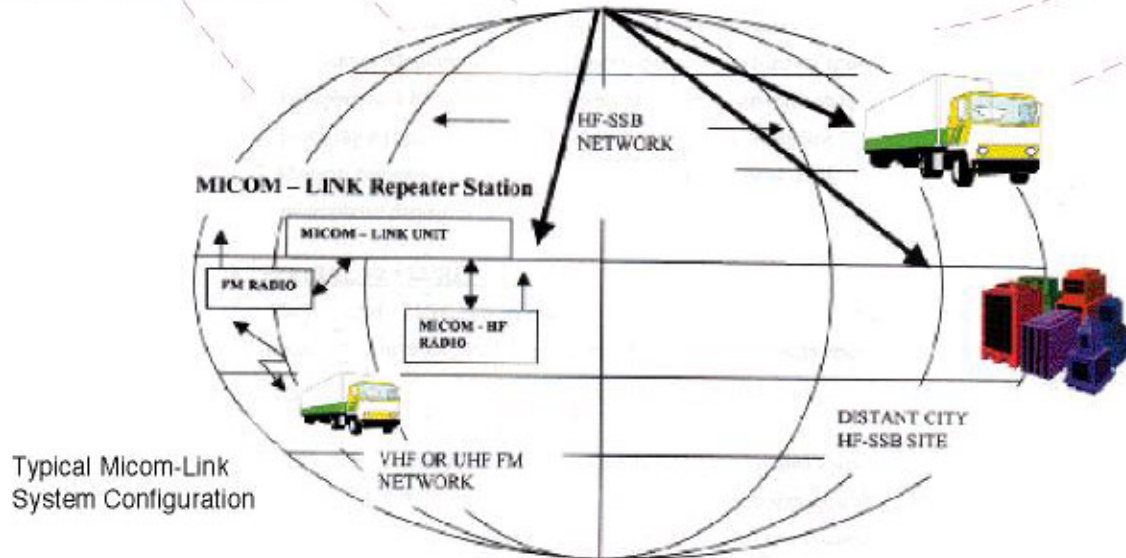
Micom Link to Signals

Pin Num.	In/Out	Name	Function	Notes
2	In	HF CD IN	Carrier detect	
4	In	HF RX+	Differential receive audio	0dBm 600 Ohm
5	In	HF RX-	Differential receive audio	0dBm 600 Ohm
6	Out	HF_TX+	Differential transmit audio	-9 - 0dBm 600 Ohm
7	Out	HF_TX-	Differential transmit audio	-9 - 0dBm 600 Ohm
8	Out	HF_PTT	PTT for transmitting voice	
11		HF_A+	Power from HF radio	13.8 VDC
18		HF_GND	Ground	

Micom Link to FM Radio

Pin Num.	In/Out	Name	Function	Notes
2	In	FM_CD_IN	Carrier detect	
4	In	FM RX+	Differential receive audio	0dBm 600 Ohm
5	In	FM_RX-	Differential receive audio	0dBm 600 Ohm
6	Out	FM_TX+	Differential transmit audio	-9 - 0dBm 600 Ohm
7	Out	FM_TX-	Differential transmit audio	-9 - 0dBm 600 Ohm
8	Out	FM_PTT+	PTT for transmitting voice	
18		FM_GND	Ground	

* Specification subject to change without notice



Typical Micom-Link System Configuration



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