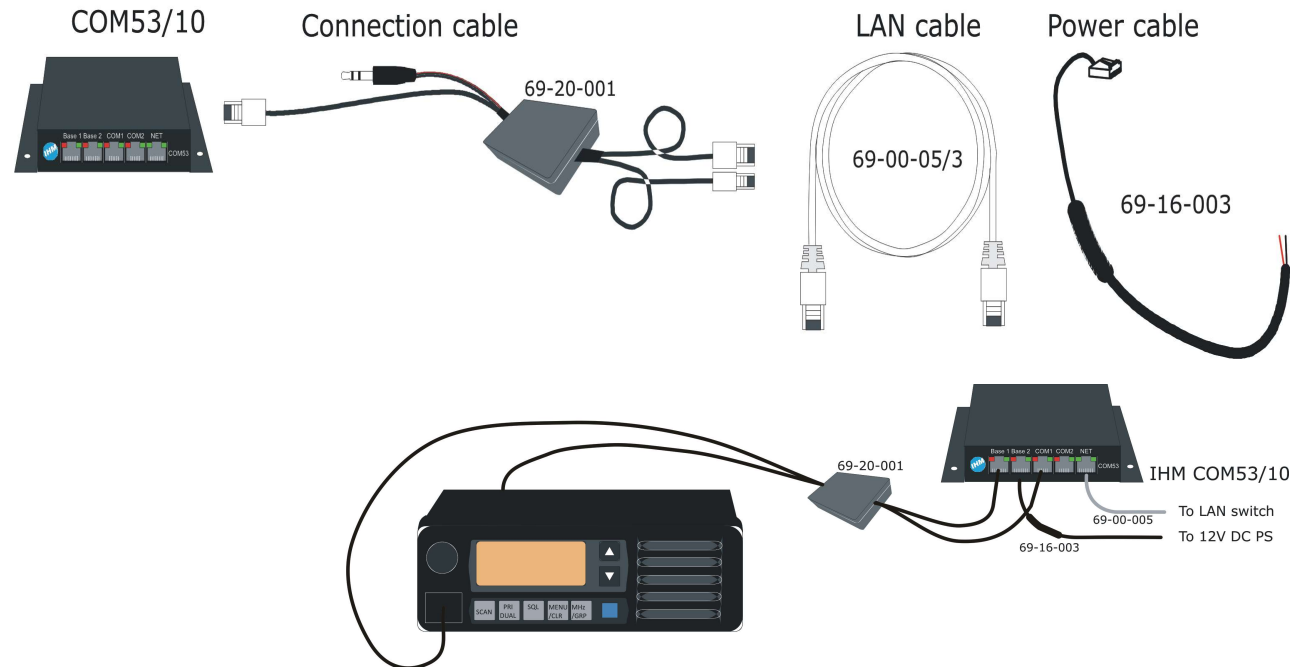# 87-COM53/10 - ICOM IC-A120 - VHF AM Airband

PRODUCT SHEET

The 87-COM53/10 is a VoIP Base Station Controller for ICOM IC-A120 VHF AM airband radio.

The 87-COM53/10 kit includes interfaces cables for connection of one radio unit.

Please note: The radio unit is not part of the IHM delivery.

Functions included

- Audio input and output to and from the radio
- PTT output (relay), communication is always performed in simplex mode
- Squelch sensitivity, Used with IHM MCS Flexible series, the squelch can be set to low, mid or high.
- Multichannel operation, Used with IHM MCS Flexible series, by setting MHz and kHz or using the facility 'Favourite channels'

Functions – not supported

- RSSI
- Dual watch
- Power setting

87-COM53/10 - ICOM IC-A120 - VHF AM Airband

PRODUCT SHEET

Technical data

Parameter	Test conditions	Min.	Typ.	Max.	Unit
Supply voltage					
Vsupply		10.6		30.0	Vdc
Current consumption					
Isupply	Vsupply = 12Vdc		250	350	mA
	Vsupply = 24Vdc		150	250	mA
Ethernet					
Connection	IEEE 802.3 / RJ45				
Speed	Dual Speed 10/100 Mbit/s		100		Mbit/s
Auto	Auto Negotiation Enabled				
Bandwidth required	Per active voice channel	128			Kbit
Latency	one direction, both directions			150 300	msec
Jitter		160			msec
Broadcast	Should be avoided or kept to a minimum				
Base Station					
Input-level		-25	-10	-3	dBm
Output-level		-25	-10	-3	dBm
Impedance			600		ohm
RS232					
Vout Low			-5V		V
Vout High			5V		V
Baud rate	Adjustable	2400		115200	Baud
Temperature range					
Ambient		0°		55°	C
Storage		-10°		65°	C
Mechanical specifications					
Module type (PCB)	120*100mm				
Weight (PCB)	100 g				
Box size	110 x 130 x 28mm				
Weight (PCB + Box)	250 g				
Weight (PCB + Box + Cables	600 g				

Data Settings

- Make sure that "Remote Phantom PTT" is enabled.
- Make sure that baud rate is set to 9600 baud.
- Line in must be set to -13 dBm.
- Line out must be set to -13 dBm.
- Set TX AGC to ON.
- Set Modulation Dept to 85%.