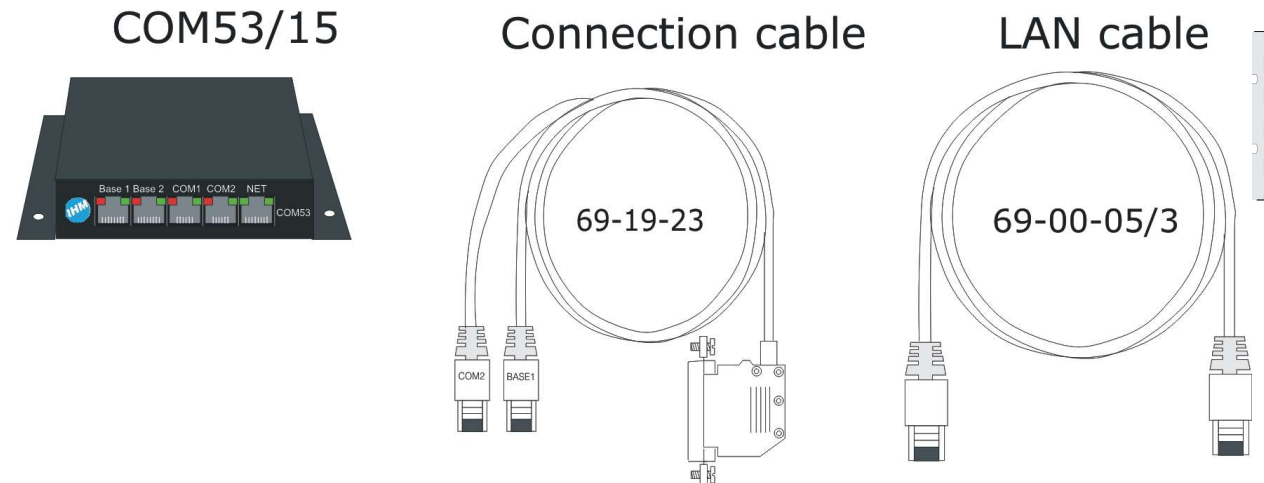


87-COM53/15 - DANPHONE DCB9140

PRODUCT SHEET

The 87-COM53/15 is a VoIP Radio Base Station Controller for connection of one DANPHONE DCB9140 VHF Radio Base Station.

The COM53/15 kit includes interfaces cables for connection of one radio unit.



The radio interface

The DANPHONE DCB9140 works either as a single channel radio or a multichannel radio base station. It works as simplex / semi-duplex or as a full duplex radio, too. The configuration of channels shall correspond to the connected filter, combiner, receiver multi coupler, antenna switching unit and antenna arrangement.

Functions included

- Audio input and output to and from the radio.
- PTT output (relay). In simplex and semi duplex mode, the received signal will be disabled, when PTT is activated. It can work in full duplex mode, too.
- Squelch input (opto coupler). Along with IHM MCS Flexible series, the squelch opening level can be set in two sensitivity levels.
- RSSI indicates the strength of the received signal. If you have more radios on the same frequency for coverage of a larger area, RSSI can be used for letting the operator select which radio to use for a conversation.
- Power output control. Along with IHM MCS Flexible series, the power output can be set to low or high.
- Channel selection. The radio can either be used as single channel or multichannel. The number of channels available depend on the firmware in the radio, the corresponding COM53 firmware and the McsService32.exe + ActServ.ini versions.

Optional functions

- DSC, Digital Selective Calling. This facility can be enabled within the COM53 as an option. In this case, the radio will be set to work as single channel on channel 73.

Functions – not supported

- Dual watch and scanning

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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				

Important !

COM53/15 firmware: c53v_DanVts_105.hex and code file Danphone DCB 9140.com53.ihm supports Danphone 9140.

Please contact IHM for availability of COM53 firmware and if applicable McsService32 supporting newer firmware versions.

DCB-9140 – Data settings

- Jumpers must be fitted on the rear fitted connection PCB, to power the COM53
- Make sure that baud rate is set to 9600 baud