

The Danphone VHF base station transceiver type DCB 9140 IP is specifically designed to operate in the marine VHF band. The latest feature include built-in Voice over IP and DSC modem controlled via LAN.

KEY FEATURES

- · GMDSS compliant
- · Voice over IP
- Remote-control over IP
- Built-in DSC modem option
- · Choice of single or dual receivers
- Specifically designed and manufactured for 24/7 operation
- Fully scalable from small ports to large national coastal radio systems
- Proven and tested for operation under harsh environments



The transceiver connects with LAN, antenna and power supply.

In addition to VoIP and remote-control over IP, the DCB9140 transceiver allows for local control via optional display and handset.



TECHNICAL SPECIFICATIONS

Nato Stock number: **5825-22-632-0324**Danphone item number: **152.2024.001**

CONNECTIONS

• LAN

• RS422

• 13.2V_{DC}

Auxiliary connector

TX antenna

RX antenna

LED INDICATORS

· Green: power and health

Red: TX

Green: Sq. RX2

Green: Sq: RX1



GENERAL	TRANSMITTER	RECEIVER	REMOTE SETTINGS
Frequency range 156 – 163 MHz (Up to 174 MHz upon request)	RF output power 2-75 Watt adjustable	RX sensitivity Typically, better than -119 dBm / 12 dB SINAD before duplexer. Better than -117 dBm / 20 dB SINAD before duplexer	Channels All international marine channels Including ITU Radio Regulations Appendix 18
Operating modes Duplex, Semi-Duplex, Simplex	Spurious emission < -85 dB Relative Carrier	Spurious response Better than 80 dB	Transmitter power level 1–75 Watt
Duty cycle 100%	Adjacent channel power Better than 80 dB	Intermodulation rejection Better than 85 dB	Squelch reference Customer defined levels
Duplex spacing 4.6 MHz	Modulation +6 dB / Octave	Adjacent channel selectivity Better than 80 dB	RX audio balance 245 mV +/- 6 dB
Number of channels 55 International marine channels	Deviation 3 kHz nom, 5 kHz max	Blocking Better than 95 dBμV (emf)	REMOTE READINGS
Channel spacing 12.5 and 25 kHz	Distortion Better than 3%	Co-channel rejection Better than 10 dB	Supply power level 0-18V ±0.1V
Frequency stability 0.5 ppm	Hum and noise Better than 40 dB	Hum and noise Better than -40 dB	Transmitter power level 2–75 Watt
Supply voltage 13.2V _{DC} min, 16V _{DC} max < 15A Over voltage protection max 32 V DC	Intermodulation Better than 40 dB at 30 dB attenuation between transmitters	Distortion Better than 3%	Reflected power level 1–20 Watt
Current consumption Transmission < 15A (75 Watt) Standby < 0.5A	TX antenna connection $50~\Omega$	RX Antenna connection 50 Ω	Temperature level -30 - +80°C, 5°C tolerance
Duplexer Optional	INTERFACE	DIMENSIONS	RSSI 0-40 dBμV
MTBF > 50,000 hours	LAN interface For audio and remote control IPV4 (upgradeable to IPV6 via software)	Dimensions 127x215x260 mm	Transmitter Shutdown for SWR > 3
Operating temperature 20 to +55°C. humidity up to 95% non-condensing	RS 422 interface For local control and operation, display, external alarm signaling, etc. (optional)	Weight of the transceiver 4.1 kg	Over Temperature Protection, Derate Output Power 0–100% @ T-case 70-90°C
Compliance EN 301 929 V2.1.1 VHF IEC EN 60950-1 Safety RoHS –2011/65/EU	VoIP Danphone multicast protocol G.711 & G.723.1 EURO CAE ED 137/C	Rack mount design Two tranceivers can be mounted side-by-side in a 19" 3HU Sub Rack	
	SNMP For control and monitoring	Powe Supply 13.2—16Vdc, < 15A	

