

PAMS Technical Documentation

NSE-5 Series Transceivers

Chapter 1

General Information

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Introduction

This chapter contains details of the technical specifications for the Transceiver, general technical information and a list of products/modules together with their associated order codes.

NSE-5 is a handheld cellular phones for the pan-European GSM network. It has a dualband GSM/DCS1800 transceiver, providing 15 power levels with a maximum output power of 2W in GSM (Class 4). It also has 16 power levels with a maximum output power of 1W in DCS1800 (Class 1).

The basic handportable package offers the user a standard battery pack and travel charger for charging from mains. Accessories and other options are listed in this chapter also.



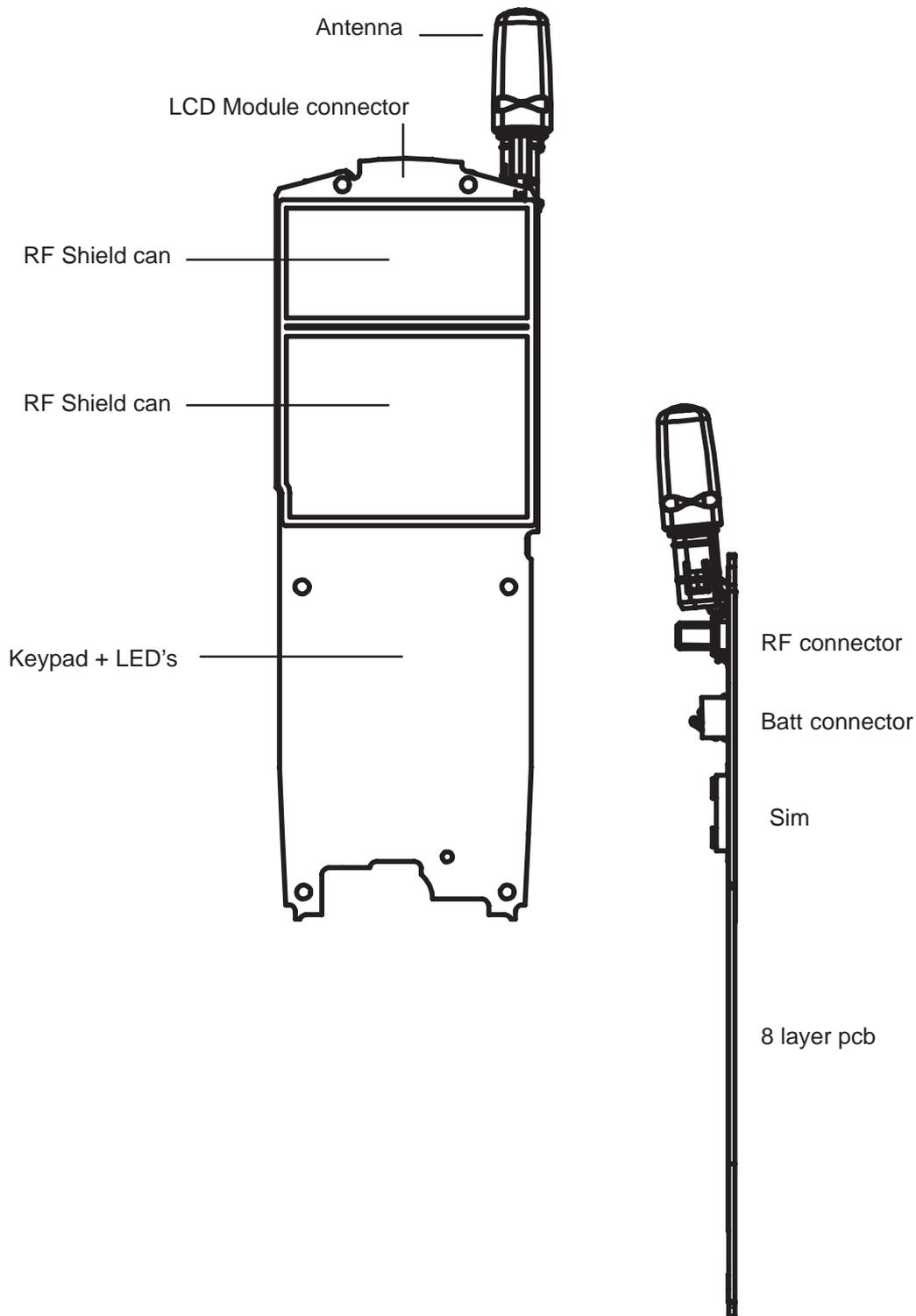


Figure 2. A side Cross Sectional View

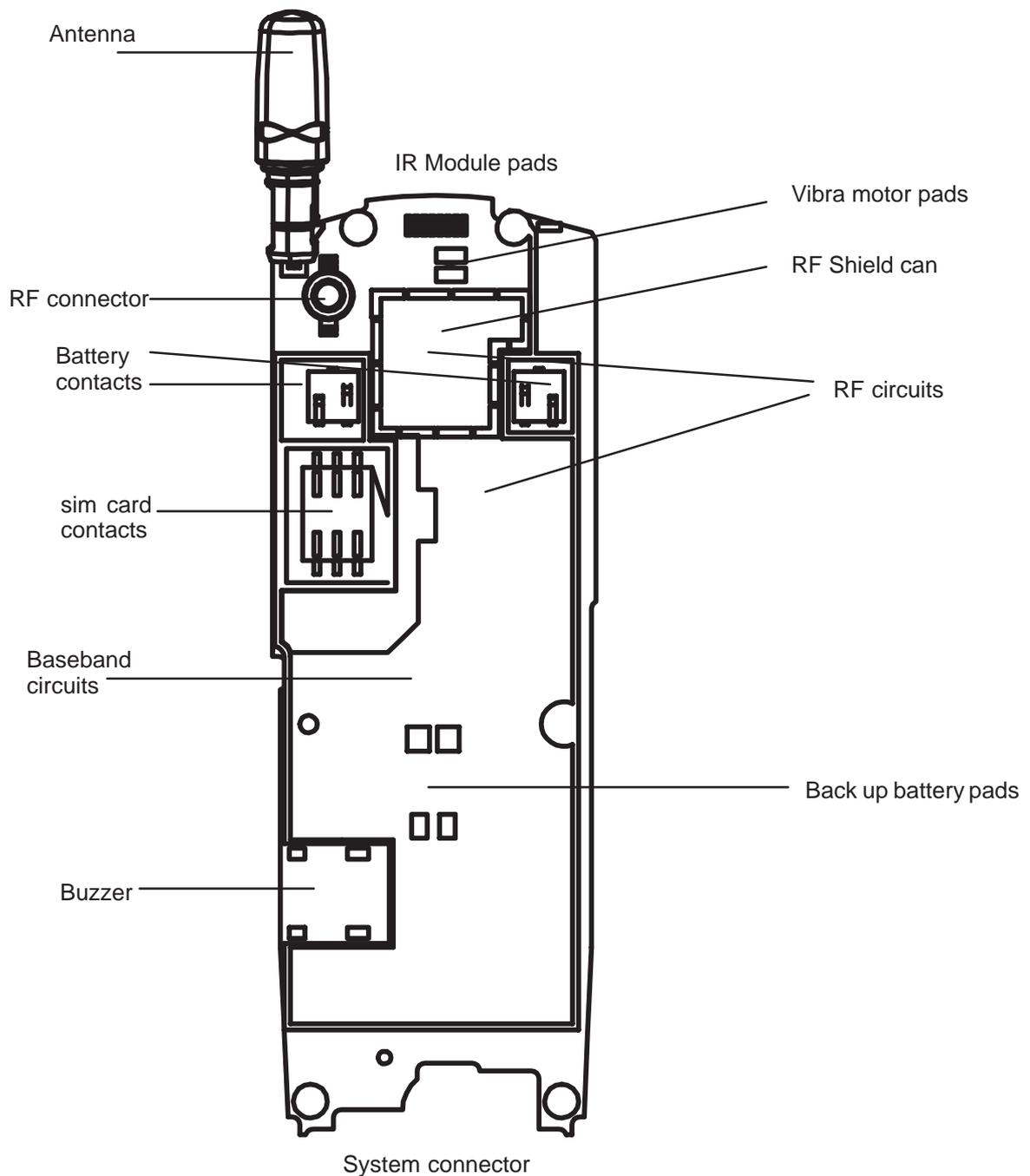


Figure 3. B Side Cross Sectional View

Modules and Accessories

Modules

Unit/type:	Product code:	Module code:
Transceiver NSE-5	0501580	
System Module UG8		0201180
UIF Module		9480401
MNSE5 Mechanical Assembly		0261665

Accessories

All accessories are deemed non-serviceable unless stated

Slim Battery BLS-2 900 mAh	0670206
Standard Battery BMS-2 900 mAh	0671323
Vibrator Battery BMS-2V 900 mAh	0670204
Extended Battery BLS-4 1500 mAh	0670207
AC Travel Charger ACP-7E (EUR) 207-253 Vac	0675144
AC Travel Charger ACP-7U (US) 108-132 Vac	0675143
AC Travel Charger ACP-7P (US) 207-253 Vac	0675147
AC Travel Charger ACP-7C (US) 198-242 Vac	0675158
AC Travel Charger ACP-7X (UK) 207-253 Vac	0675145
AC Travel Charger ACP-7H (UK) 180-220 Vac	0675146
AC Travel Charger ACP-7X (AUS) 216-264 Vac	0675148
Fast Travel Charger ACP-8E (EUR) 90-264 Vac	0675195
Fast Travel Charger ACP-8U (US) 90-264 Vac	0675196
Fast Travel Charger ACP-8X (UK) 90-264 Vac	0675197
Fast Travel Charger ACP-8A (AUS) 90-264 Vac	0675199
Cigarette Lighter Charger LCH-9	0675120
Desktop Stand DCH-9	0700049
Mobile Holder MBC-1	0700060
Mobile Holder MCC-1	0620043
Handsfree Unit HFU-2	0694049
Power Cable PCH-4J	0730055
HF Microphone HFM-8	0690016
HF Speaker HFS-12	0692008
Mounting Plate MKU-1	0620036
Swivel Mount HHS-9	0620037

Headset HDC-9	0694053
Belt Clip BCH-12	0720098
External Antenna Cable XRC-1	0730103
Data Adapter Cable DAC-2	0730106

Mobile Accessories

Mobile Holder MBT-5	0620030	
Handsfree Unit PHF-3	0694030	
• HF/charger module DC9		0200656
• mechanics MPHF3		0260681
Power Cable PCH-4J	0730055	
HF Microphone HFM-7	0690012	
HF Speaker HFS-9	0692007	
Mounting Plate MKE-7	0650021	
Swivel Plate HHS-7	0650020	
Power Cable XLC-1	0730060	

Technical Specifications

General Specifications

Temperature range (Extreme conditions) –specifications fulfilled	<i>-20° C to +55° C</i>
Operating time (BLS-2S)	
• talk time	2h 30min – 4h 30min
• standby time	55–260h
Battery voltage (nominal) (Max)	3.6v 4.1
Dimensions (h x w x d)	125 x 53 x 24 mm
Weight	
• transceiver + BLS-2S (battery)	141g

Electrical Specifications

Parameter	Unit
Cellular system	GSM and DCS1800
RX frequency band	935.2 ... 959.8 MHz GSM 1805.2 ... 1879.8 MHz DCS1800
TX frequency band	890.2 ... 914.8 MHz GSM 1710.2 ... 1784.8 MHz DCS1800
Output power	+5 ...+33 dBm / 3.2 mW ... 2 W GSM +0 ... +30 dBm/ 1 mW ... 1 W DCS1800
Duplex spacing	45 MHz GSM 95 MHz DCS1800
Number of RF channels	124 GSM 374 DCS1800
Channel spacing	200 kHz
Number of TX power levels	GSM 15 DCS1800 16
Sensitivity, static channel	-102 dBm/ BER < 2.439 % GSM -100 dBm/ BER < 2.439 % DCS1800
Frequency error, static channel	< 0.1 ppm
RMS phase error	< 5.0 °
Peak phase error	< 20.0 °