

Customer Care Solutions NPL-2 Series Cellular Phones

1 - General Information



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The Product

The NPL-2 is a triple band handportable mobile telephone for the E-GSM 900, GSM 1800 and GSM 1900 networks, automatically switching between 900, 1800 and 1900MHz bands; automatic handover between 900 & 1800 MHz bands. It is power class 1 (1W) transceiver in all bands except GSM900 where it is a power class 4 transceiver (2W).

The NPL-2 has additional features as defined below:

- GPRS (General Packet Radio Service)
- Full graphic colour display
- Jack style UI with two soft keys
- Integrated IR link & internal data
- Integrated handsfree
- Internal vibra
- Plug & play HF support
- Internal antenna

Handportable transceiver

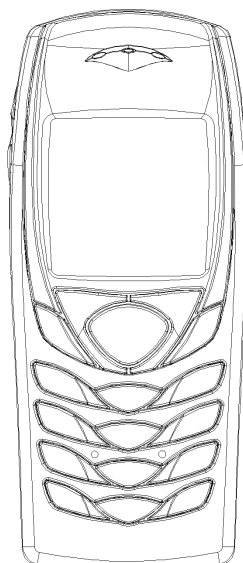


Figure 1: General view of NPL-2

Product and Module list

	Material Code
NPL-2, 6100 Euro-A light blue latin	0509129
NPL-2, HDG13 Basic transceiver	0508109
MX4 GSM/DCS/PCS system module	0201874
SW NPL-2 MCU	0243472
MN PL2 assy parts	0262727
MX4 GSM/DCS/PCS system module Top	0201967
MX4 GSM/DCS/PCS system module Bottom	0201971

General specification of transceiver

Parameter	Unit
Cellular system	GSM900, GSM1800, GSM1900
RX frequency band	EGSM: 925 ... 935 MHz GSM900: 935 ... 960 MHz GSM1800: 1805 ... 1880 MHz GSM1900: 1930 ... 1990 MHz
TX frequency band	EGSM: 880 ... 890 MHz GSM900: 890 ... 915 MHz GSM1800: 1710 ... 1785 MHz GSM1900: 1850 ... 1910 MHz
Output power	EGSM: +5 ... +33 dBm (3.2 mW ... 2 W) GSM900: +5 ... +33 dBm (3.2 mW ... 2 W) GSM1800: +0 ... +30 dBm (1.0 mW ... 1 W) GSM1900: +0 ... +30 dBm (1.0 mW ... 1 W)
Duplex spacing	EGSM: 45 MHz GSM900: 45 MHz GSM1800: 95 MHz GSM1900: 80 MHz
Number of RF channels	EGSM: 50 GSM900: 124 GSM1800: 374 GSM1900: 299
Channel spacing	200 kHz (each band)
Number of TX power levels	EGSM: 15 GSM900: 15 GSM1800: 16 GSM1900: 16
Sensitivity, static channel	EGSM: -102 dBm GSM900: -102 dBm GSM1800: -102 dBm (+25°C) GSM1900: -102 dBm
Frequency error, static channel	< 0.1 ppm
RMS phase error	< 5.0 °
Peak phase error	< 20.0 °

Accessories

For more details on the accessories refer to Chapter 8.

BL-4C,	E&A, APAC = Battery, Americas = Li-Ion Battery .
ACP-7,	E&A, APAC = Standard Charger, Americas = Standard Travel Charger
ACP-8	E&A = Travel Charger, APAC = Fast & Light Charger
ACP-12	Travel Charger
LCH-9	E&A, APAC = Mobile Charger
LCH-12	E&A, APAC = Mobile Charger
HS-5	Headset
HDB-4	Boom Headset
LPS-4	Inductive Loopset
HS-1C	Camera Headset
CARK126 +MBC-15S + AXF-15S	Full car kit
MBC15S	Mobile Holder
AXF-15S	Antenna Coupler
HSU-3	Privacy Handset
BHF-1	Headrest Handsfree
DKU-5	Connectivity Adapter Cable
DCV-14	Connectivity Desk Stand

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