

NGT SRx Transceiver

SPECIFICATIONS

GENERAL

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| Frequency range | Transmit: 1.6 to 30 MHz Receive: 0.25 to 30 MHz |
| Channel capacity | 400 channels (single or two-frequency simplex channels) |
| Frequency generation | All frequencies generated by synthesiser and DDS with 10 Hz resolution |
| Operating modes | Single sideband (J3E) USB, LSB, switched USB/LSB, (AM:H3E), J2A (CW), J2B (AFSK) |
| Frequency stability | ±0.3 ppm (–30 to +60°C) |
| Programming | Frequencies and options are programmed via the handset RS232 socket using NSP software and a PC Channels may be entered from the handset by qualified personnel or (where authorised) by the operator |
| RF input/output impedance | 50 Ω |
| Supply voltage | 13.6 DC nominal, negative earth Nominal operating range: 10.8 to 15 V Functional range (no spec): 9 to 16 V Reverse polarity protected |
| Overvoltage protection | Shutdown at 16 V DC nominal for duration of overvoltage up to 60 V |
| Display | Graphic LCD with 3 levels of backlighting and auto-dim |
| Selcall system | 4 and 6 digit protocol based on CCIR 493, including UN, Codan and other manufacturer's systems |
| ALE system | Compliant with FED-STD-1045 and interoperable with MIL-STD-188-141B |
| Scan types | Selcall, ALE and voice (syllabic) |
| Scan tables and channels | 10 tables with up to 100 channels per table Up to 100 channels can be scanned at the same time |
| Scan rate | Fixed or variable from 250 ms to 9.9 sec |
| Supply current | |
| Transmit | Two-tone: 14 A typical Average speech: 8 A |
| Receive | 650 mA |
| Computer interface | RS232, 300 to 38400 baud |
| GPS interface | NMEA-0183 (4800 baud, RS232) |

RECEIVER

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| Sensitivity | 0.12 μV, –125 dBm For 10 dB SINAD |
| Selectivity | Greater than 70 dB at –1 kHz and +4 kHz reference SCF USB |
| Image rejection | Better than 70 dB |
| Spurious responses | Better than 90 dB |
| Intermodulation | The unwanted signal must have a level greater than 92 dB above the wanted signal |
| Audio response | –6 dB 350 to 2850 Hz |
| Audio power and distortion | 4 W into 4 Ω, 5% THD |

TRANSMITTER

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| Power output | 125 W PEP ±1 dB |
| Duty cycle | 100% for all modes with Option F |
| Spurious and harmonic emissions | Better than 65 dB below PEP |
| Carrier suppression | Better than 60 dB below PEP |
| Unwanted sideband | 70 dB below PEP |
| Intermodulation (Two-tone test) | 33 dB below PEP |

PHYSICAL

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| Environment | |
| Ambient temperature | –30 to +60°C |
| Relative humidity | 95% non-condensing |
| Size | |
| 2012 RF Unit | 210 mm W x 270 mm D x 65 mm H |
| 2020 handset | 65 mm W x 35 mm D x 130 mm H |
| Handset and speaker connector | 35 mm W x 60 mm D x 22 mm H |
| Weight | |
| 2012 RF Unit | 3.3 kg |
| 2020 handset | 0.3 kg |

STANDARDS

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|-------------------|---|
| Electrical | Exceeds or meets requirements of: AS/NZS 4770:2000 AS/NZS 4582:1999 CE, NTIA and FCC |
| Physical | MIL-STD-810F Dust: method 510.4 Shock: method 514.5 Vibration: method 516.5 |

Values noted are typical. Specifications are subject to change without notice or obligation.

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