

---

## 2. SGH-P777 Specification

---

### 1. GSM General Specification

|                                    |      | <b>GSM850</b>          | <b>DCS1800</b>         | <b>PCS1900</b>         |
|------------------------------------|------|------------------------|------------------------|------------------------|
| Freq. Band[MHz]<br>Uplink/Downlink |      | 824~849<br>869~894     | 1710~1785<br>1805~1880 | 1850~1910<br>1930~1990 |
| ARFCN range                        |      | 128~251                | 512~885                | 512~810                |
| Tx/Rx spacing                      |      | 45MHz                  | 95MHz                  | 80MHz                  |
| Mod. Bit<br>rate/<br>Bit Period    | GPRS | 270.833Kbps<br>3.692us | 270.833Kbps<br>3.692us | 270.833Kbps<br>3.692us |
|                                    | EDGE | 812.5Kbps<br>3.692us   | 812.5Kbps<br>3.692us   | 812.5Kbps<br>3.692us   |
| Time Slot<br>Period/Frame Period   |      | 576.9us<br>4.615ms     | 576.9us<br>4.615ms     | 576.9us<br>4.615ms     |
| Modulation                         | GPRS | 0.3GMSK                | 0.3GMSK                | 0.3GMSK                |
|                                    | EDGE | 8PSK                   | 8PSK                   | 8PSK                   |
| MS Power                           | GPRS | 33dBm~5dBm             | 30dBm~0dBm             | 30dBm~0dBm             |
|                                    | EDGE | 27~5dBm                | 26~0dBm                | 26~0dBm                |
| Power<br>Level                     | GPRS | 5~19(class4)           | 0~15(class1)           | 0~15(class1)           |
|                                    | EDGE | 8~19(class E2)         | 2~15(class E2)         | 2~15(class E2)         |
| Sensitivity                        |      | -102dBm                | -100dBm                | -102dBm                |
| TDMA Mux                           |      | 8                      | 8                      | 8                      |
| Cell Radius                        |      | 35Km                   | 2Km                    | 2Km                    |

## 2. GMSK TX power Level

| TX Power control level | GSM850               | TX Power control level | DCS1800              | TX Power control level | PCS1900              |
|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| 5                      | $33 \pm 2\text{dBm}$ | 0                      | $30 \pm 2\text{dBm}$ | 0                      | $30 \pm 2\text{dBm}$ |
| 6                      | $31 \pm 3\text{dBm}$ | 1                      | $28 \pm 3\text{dBm}$ | 1                      | $28 \pm 3\text{dBm}$ |
| 7                      | $29 \pm 3\text{dBm}$ | 2                      | $26 \pm 3\text{dBm}$ | 2                      | $26 \pm 3\text{dBm}$ |
| 8                      | $27 \pm 3\text{dBm}$ | 3                      | $24 \pm 3\text{dBm}$ | 3                      | $24 \pm 3\text{dBm}$ |
| 9                      | $25 \pm 3\text{dBm}$ | 4                      | $22 \pm 3\text{dBm}$ | 4                      | $22 \pm 3\text{dBm}$ |
| 10                     | $23 \pm 3\text{dBm}$ | 5                      | $20 \pm 3\text{dBm}$ | 5                      | $20 \pm 3\text{dBm}$ |
| 11                     | $21 \pm 3\text{dBm}$ | 6                      | $18 \pm 3\text{dBm}$ | 6                      | $18 \pm 3\text{dBm}$ |
| 12                     | $19 \pm 3\text{dBm}$ | 7                      | $16 \pm 3\text{dBm}$ | 7                      | $16 \pm 3\text{dBm}$ |
| 13                     | $17 \pm 3\text{dBm}$ | 8                      | $14 \pm 3\text{dBm}$ | 8                      | $14 \pm 3\text{dBm}$ |
| 14                     | $15 \pm 3\text{dBm}$ | 9                      | $12 \pm 4\text{dBm}$ | 9                      | $12 \pm 4\text{dBm}$ |
| 15                     | $13 \pm 3\text{dBm}$ | 10                     | $10 \pm 4\text{dBm}$ | 10                     | $10 \pm 4\text{dBm}$ |
| 16                     | $11 \pm 5\text{dBm}$ | 11                     | $8 \pm 4\text{dBm}$  | 11                     | $8 \pm 4\text{dBm}$  |
| 17                     | $9 \pm 5\text{dBm}$  | 12                     | $6 \pm 4\text{dBm}$  | 12                     | $6 \pm 4\text{dBm}$  |
| 18                     | $7 \pm 5\text{dBm}$  | 13                     | $4 \pm 4\text{dBm}$  | 13                     | $4 \pm 4\text{dBm}$  |
| 19                     | $5 \pm 5\text{dBm}$  | 14                     | $2 \pm 5\text{dBm}$  | 14                     | $2 \pm 5\text{dBm}$  |
|                        |                      | 15                     | $0 \pm 5\text{dBm}$  | 15                     | $0 \pm 5\text{dBm}$  |

### 3. EDGE TX Power Level

| <b>TX Power control level</b> | <b>GSM850</b>        | <b>TX Power control level</b> | <b>DCS1800</b>       | <b>TX Power control level</b> | <b>PCS1900</b>       |
|-------------------------------|----------------------|-------------------------------|----------------------|-------------------------------|----------------------|
| 8                             | $27 \pm 3\text{dBm}$ | 2                             | $26 \pm 3\text{dBm}$ | 2                             | $26 \pm 3\text{dBm}$ |
| 9                             | $25 \pm 3\text{dBm}$ | 3                             | $24 \pm 3\text{dBm}$ | 3                             | $24 \pm 3\text{dBm}$ |
| 10                            | $23 \pm 3\text{dBm}$ | 4                             | $22 \pm 3\text{dBm}$ | 4                             | $22 \pm 3\text{dBm}$ |
| 11                            | $21 \pm 3\text{dBm}$ | 5                             | $20 \pm 3\text{dBm}$ | 5                             | $20 \pm 3\text{dBm}$ |
| 12                            | $19 \pm 3\text{dBm}$ | 6                             | $18 \pm 3\text{dBm}$ | 6                             | $18 \pm 3\text{dBm}$ |
| 13                            | $17 \pm 3\text{dBm}$ | 7                             | $16 \pm 3\text{dBm}$ | 7                             | $16 \pm 3\text{dBm}$ |
| 14                            | $15 \pm 3\text{dBm}$ | 8                             | $14 \pm 3\text{dBm}$ | 8                             | $14 \pm 3\text{dBm}$ |
| 15                            | $13 \pm 3\text{dBm}$ | 9                             | $12 \pm 4\text{dBm}$ | 9                             | $12 \pm 4\text{dBm}$ |
| 16                            | $11 \pm 5\text{dBm}$ | 10                            | $10 \pm 4\text{dBm}$ | 10                            | $10 \pm 4\text{dBm}$ |
| 17                            | $9 \pm 5\text{dBm}$  | 11                            | $8 \pm 4\text{dBm}$  | 11                            | $8 \pm 4\text{dBm}$  |
| 18                            | $7 \pm 5\text{dBm}$  | 12                            | $6 \pm 4\text{dBm}$  | 12                            | $6 \pm 4\text{dBm}$  |
| 19                            | $5 \pm 5\text{dBm}$  | 13                            | $4 \pm 4\text{dBm}$  | 13                            | $4 \pm 4\text{dBm}$  |
|                               |                      | 14                            | $2 \pm 5\text{dBm}$  | 14                            | $2 \pm 5\text{dBm}$  |
|                               |                      | 15                            | $0 \pm 5\text{dBm}$  | 15                            | $0 \pm 5\text{dBm}$  |