



## Technical data

### Allgon Microwave Radio 23 GHz –1200

|                                                           |                                                   |                               |           |
|-----------------------------------------------------------|---------------------------------------------------|-------------------------------|-----------|
| Frequency band                                            | 21.2 – 23.6 GHz                                   |                               |           |
| Duplex frequency                                          | 1200 MHz                                          |                               |           |
| Modulation                                                | Continuous Phase Modulation                       |                               |           |
| Frequency stability                                       | +/- 10 ppm                                        |                               |           |
| Output power                                              | -10 - +20 dBm                                     |                               |           |
| Power control<br>dB steps                                 | > 30 dB dynamic range, software adjustable in 0.1 |                               |           |
| Traffic capacity<br>17x1.544 Mbit/s                       | Software configurable from 2x1.544 up to          |                               |           |
| Receiver thresholds and bandwidth<br>(Typical thresholds) | Capacity                                          | @BER=10E-6                    | Bandwidth |
|                                                           | 2x1.544 Mbit/s                                    | -89 dBm                       | 2.5 MHz   |
|                                                           | 4x1.544 Mbit/s                                    | -87 dBm                       | 5 MHz     |
|                                                           | 8x1.544 Mbit/s                                    | -84 dBm                       | 10 MHz    |
|                                                           | 17x1.544                                          | -81 dBm                       | 20 MHz    |
| Antenna gain                                              | 1ft                                               | 34.0 dBi                      |           |
|                                                           | 2ft                                               | 39.5 dBi                      |           |
| Traffic interface                                         | DS1 standard acc to ITU-T. G.703,                 |                               |           |
| Power consumption, 4x1.544 Mbit/s                         | < 40 W                                            |                               |           |
| Power supply                                              | 20 - 70 VDC, any polarity                         |                               |           |
| Environmental robustness                                  | According to ETSI standards                       |                               |           |
| Temperature ranges                                        | Radio Unit -45°C to +65°C                         |                               |           |
|                                                           | Baseband Unit -25°C to +45°C (excl. Ethernet TIU) |                               |           |
| Management                                                | Physical interfaces: RS232 DTE (PC)               |                               |           |
|                                                           | RS232 DCE (modem)                                 |                               |           |
|                                                           | Ethernet 10BaseT                                  |                               |           |
|                                                           | Embedded Control Channel                          |                               |           |
|                                                           | Keypad and display                                |                               |           |
|                                                           | Local protocols Web server                        |                               |           |
|                                                           | VT100 interface                                   |                               |           |
|                                                           | Remote protocols Built-in SNMP                    |                               |           |
|                                                           | Web server and e-mail                             |                               |           |
| Forward error correction                                  | Included as standard                              |                               |           |
| Dimensions (HxWxD)                                        | Radio Unit                                        | 185x185x80 mm. (excl. handle) |           |
|                                                           | Baseband Unit                                     | 44x483x277 mm. (1U, 19")      |           |
|                                                           | Antenna Unit 1 ft                                 | 380x380x170                   |           |
|                                                           | Antenna Unit 2 ft                                 | 630x630x270                   |           |



|                  |               |                         |
|------------------|---------------|-------------------------|
| Weight           | Radio Unit    | 2.5 kg                  |
|                  | Baseband Unit | 3.5 kg                  |
| mounting bracket | Antenna Unit  | 6.5 kg, 1 ft. including |