

2. Specification

2.1. RF Specifications

- Frequency Band 824 – 849 MHz, Uplink (Reverse Link)
869 – 894 MHz, Downlink (Forward Link)
- Number of Bands 2
- Bandwidth 0.5 – 20 MHz, Programmable
- Gain Adjustment Range 55 – 85 dB (1 dB Steps)
- ALC > 30 dB
- Absolute Group Delay < 10 μ s (8 μ s Typical)
- Output Power +30 dBm, Total

- Maximum Input Power (Non-destructive) +13 dBm
- Out of Band Spurious Emission -30 dBm, max.
- Selectivity < -20 dB @ +/-500 kHz out of band
< -30 dB @ +/-700 kHz out of band
< -50 dB @ +/-1 MHz out of band

- Pass Band Ripple 6 dB
(Typical 3 dB @ +/-1 MHz departure from the edge within the selected band)

- Noise Figure at Max Gain 5 dB
- VSWR < 1.5 : 1

2.2. Electrical Specifications

- Power Supply Voltage (default) 115 V AC
- Power Consumption, max 200 W
- DC Output of PSU 27 V, 12 V

2.3. Mechanical Specifications

- Dimensions (W×H×D) 410 mm × 520 mm × 234 mm
- Weight 23 kg
- RF Connector N-type female
- Signal Connectors RJ45 Modular Jack
DB25 female for 8 dry contact output
DB9 female for 6 dry contact input

2.4. Environmental Specifications

- Temperature Range -25 to +55 °C
- Humidity 95%, Relative
- Casing Class IP53

2.5. Monitor and Control

Monitor

- Output Power
- ALC Attenuation
- DGC Attenuation
- PA Enable
- PA temperature
- VSWR
- Band Setting
- Used Gain

Control

- ALC level
- DGC Attenuation
- PA Enable
- Band Setting

Alarm

- PA fault
- High Temperature
- Overpower
- Synthesizer Fault (unlock)
- PSU (Power Supply Unit) fault
- Self-oscillation
- VSWR Alarm
- Door Open Alarm
- External Alarm 1 ~ 6