$915MHz$
$3W$
$12V$
$15V$
$915MHz$
$RG-$
213
$23.054dB100m$
Oscilador 915 MHz
$20dBm$
$20dBm$
$100mA@20dBm$
$1\mu A$
$1.2kbps-$
$115.2kbps$
$44.1\times$
$30\times$
$1.2mm$
Amplificador de Potencia DC-DC P1110B
70%
50Ω
$-5dBm$
$_{r}piConexionadoRaspberryPi.$
$3.3V$
$3.3V$
I^2C
$_{c}onexionadoConexionado^2C$
?
$P_{rpi_{min}} =$
$2W$
$P_{rpi_{est}} =$
$2.7W$

$$E_{rpi_{est}} = P_{rpi_{est}} \cdot 24hs = 233.28kJ \quad (1)$$

$2W$
70%
$2.85W$
$E_{ant} = P_{ant} \cdot 8.5hs = 130.89kJ \quad (2)$

$$E_{sist} = E_{rpi_{est}} + E_{ant} = 364.17kJ \quad (3)$$

$V_{bat} =$
$12V$
$T_{reserva} =$
$4días$
?
$\gamma_{bat} =$
1.5

$$Capacidad_{bat} = \frac{E_{sist} \cdot T_{reserva} \cdot 1000}{V_{bat} \cdot 3600} \cdot \gamma_{bat} = 50.58Ah \quad (4)$$

$\rho =$
0.1
$\gamma_{panel} =$
1.75

$$Pot_{panel} = \left(364.17kJ + \frac{Capacidad_{bat} \cdot V_{bat} \cdot 3600 \cdot \rho}{1000}\right) \cdot \gamma_{panel} \cdot \frac{1000}{60 \cdot 60 \cdot 8hs} = 35,41W \quad (5)$$

I^2C

$$R_p = \frac{V_{dd}}{I_{R_p}} = \frac{3.3V}{1mA} = 3.3k\Omega \quad (6)$$

´o
?
$_{o}nhora\cdot$
$24horadía\cdot$
$14día\cdot$
$(24Bytesmedición+$
$16Bytesmedición)$
$+$
$2mediciónhora\cdot$
$24horadía\cdot$
$14día\cdot$
$2.4MBytes+$
$2KBytedía\cdot$
$14día \equiv$
$1.61GBy$
Initial Idle Chara-