

On-board equipment

Electrical characteristics :

Values	Min.	Typ.	Max.	UM
Power supply				
Voltage supply (recommended working conditions)	9	-	28	V
Internal battery voltage (in recommended working conditions)	3,35	-	4,3	V
Current consumption				
Deep Sleep, average current	-	1.5	4	mA
UBATT =12.6V, all the modules are working the battery is under charge	-	-	210	mA
UBATT =12.6V, all the modules are working the battery is charged	-	-	155	mA
UBATT =12.6V, only GPS is working GPRS is in stand-by, battery charged	-	-	60	mA
Output				
Maximum output current	-	-	900	mA
RDS_on, Drain-Source	-	-	200	mOhm
Digital inputs				
Input resistance	1,5	-	-	kOhm
Recommended input voltage	10	-	UBAT	V
Threshold voltage for transition L to H	-	8	-	V
1Wire input				
Voltage domain on this pin	0	-	+3V3	V
Maximum cable length (with two sensors connected to the bus)	0	-	23	m
Analog Inputs				
Input resistance for input range 0..6V	-	164	-	kOhm
Input resistance for input range 0..30V	-	91,1	-	kOhm
Input voltage divided into two sub ranges	0	-	30	V
RS485 interface				
Load resistance	-	120	-	Ohm
Survival absolute maximum voltage applied to pins A or B, long term	-13	-	16	V
Survival absolute maximum voltage applied to pins A or B, short term	-100	-	100	V
Differential threshold voltage	2	2.5	-	V