ADCON

RA440 - Remote A440

- **Device type**
  Remote Wireless Modem

- **Product highlights**
  IP-67; Build a remote UHF network, uplink to A850 via GPRS / 3G; 20km range on UHF and even beyond depending on installation

- **Data transmission**
  Uplink to A850 via GPRS, 3G and Radio communication (430-470MHz), 500mW

The RA440 bridges UHF RTUs to the GPRS network. It incorporates therefore two radio modems: the same 500mW UHF radio found in our A733 addWAVE RTU, and the same Motorola Quad-Band GPRS modem used in our A753 GSM RTU. That's why you see on the image of the device 2 antennas!

Mechanics:	
Case	Aluminum, powder coated; Made in Germany
Protection type	IP-67
Dimensions & weight	227 x 168 x 117 mm (8.9 x 6.6 x 4.6 inch) 2900g (6.4 lbs) - case only 3308g (7.3 lbs) - case including antennas
Connector to Solar Panel	Made in Germany by Binder; IP-67 rated 1 x M9 female 5-pin with dust cap
Connector to DC Power Source	Made in France by Souriau; IP-67 rated 1 x UTS HiSeal Bayonet male 2-pin. with 2-pin
Antenna connector	2 x TNC, water tight , Made in Germany
Mounting	2 x Mast mounting brackets, integrated

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Operating temperature	-20°C ... +65°C -30°C ... +75°C extended range upon request

Data Transmission - GPRS:	
Frequency range	900 & 1800 MHz (Europe) and 850 & 1900 MHz (Americas) 3 UMTS frequencies optional
Modem	Telit G24 Telit H24 optional
SIM Card	small footprint
Security	SIM cards are PIN code protected
Connection type	GPRS UMTS: optional with H24 modem
Antenna	Omni directional quad band

Data Transmission - UHF:	
Tx Output Power:	500mW
Rx Sensitivity	-120dBm (10 dB S/N)
Frequency range	430 - 470MHz (in bands of 10MHz)
Channel Spacing	10 / 12.5 / 25 kHz (factory preset)
Antenna	Omni directional, rigid, 3dB gain, incl. mast mounting bracket and 6m of cable

General:	
Number of radio RTU's supported	15 - 20; depends on various factors: number of sensors per station, slot time and polling time
Power Supply	1 or 2 internal 6.2V batteries, charged by solar panel; Optional: external 12V DC power source, e.g. car battery
Internal Battery	Panasonic high-temperature industrial grade NiMH battery, 3.300mAh
Approvals	FCC, R&TTE, CE, Industry Canada, ACMA Australia

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