

A440 Wireless Modem

The A440 Wireless Modem is an essential component of an A850 Base Station. Being connected to the A850 Telemetry Gateway via a custom RS-485 cable, which not only provides a communication link, but also power to the A440, this wireless modem is polling data from all Adcon UHF RTUs, long and short range.

To provide optimum compatibility to all of Adcon's UHF RTUs the A440 employs the same 500mW radio modem as being used in our long range units A731/A732/A733 and A751/A752/A753 addWAVE. By default the A440 is meant to be mounted in an elevated location, for example on the roof of the building where the A850 is installed. With proper installation, distances of up to 20km, sometimes even beyond, can be achieved. Please make sure that installation is done with proper grounding of both components, A850 and A440. Consult an expert technician to make sure that all guidelines and recommendations for lightning protection are observed!

A440 is available in four different frequency bands, each covering 10MHz. Please make sure to order the correct frequency range according to your local regulations.

IP protection is provided by using a german-made aluminum housing with stainless steel cover screws and a properly molded gasket.



Technical data

Dimensions	119 x 79 x 60 mm
Weight	590 g
Ingress Protection class	IP-65
Temperature range	-30°C ... +65°C
Case	powder-coated aluminum
Screw connections	flange sockets of nickel-plated brass, stainless cover screws
Connectors (IP67 if properly mated or capped)	1x Binder M12 4-pin to A850 1x TNC Antenna connector
Power supply	5.6...10VDC via cable connection to A850 Telemetry Gateway
Frequency bands	4 x 10-MHz bands from 430 to 470MHz
Channel spacing	10 / 12,5 / 25kHz

Rx Sensitivity	-120 dBm (10 dB S/N)
Tx Output power	500mW
Transmission distance	max. 20km (depends on topography and type of installation)
Antenna	omni-directional, $\lambda/2$, +2dBi, rigid
Type approvals	FCC Part 15, R&TTE (ETSI EN300220 & EN300113), Industry Canada, ACMA Australia, etc.

Ordering information:

800.000.118	A440 Wireless Modem Band 1 430-440 MHz
800.000.119	A440 Wireless Modem Band 2 440-450 MHz
800.000.120	A440 Wireless Modem Band 3 450-460 MHz
800.000.121	A440 Wireless Modem Band 4 460-470 MHz