

## AiMiR Communications Network Model : NAMR-P214SR (RF MODEM)

### Specifications

Item	Description
Processor	ARM Cortex 32Bits Microcontroller
Memory	Min. Flash 1MB, RAM 256KB
External Memory	Serial Flash 8M Byte
Interface	UART : Metering & Console
RF(Sub-Giga) Interface	SPI : Sub-Giga (870MHz – 875.6MHz)
RF(Sub-Giga) Antenna	- Built-in: 0 dBi Internal Ant. - External: Mountable Ant., Connector Type : MCX
RF Radiated Output	Max. 27dBm (E. R.P)
RF bit-rate	1.2kbps, 4,8kbps, 38.4kbps, 50kbps, 100kbps
RF Modulation	2-GFSK, 4-GFSK, 4-FSK
RF Receive Sensitivity	-122dBm @ 1.2kbps
	-113dBm @ 4.8kbps
	-110dBm @ 38.4kbps
	-109dBm @ 50kbps
	-107dBm @ 100kbps
RF Number of Channel	28 Channels
RF Channel Spacing	200KHz
RF Certification	ETSI EN 303 204
RF Approval	CE mark
RF Standard	IEEE 802.15.4g
Operating Temperature / Humidity	-40°C ~ +70 °C / 10% ~ 95%
Storage Temperature / Storage Humidity	-40°C ~ +85°C / 10% ~ 95%
Power Consumption @ DC + 12V	Typ. RX Mode : 0.8 W
	Typ. TX Mode : 2.4 W
	Charging state: Max 2.66W (Charge Current : 115mAh)
Back Up Power	Super capacitor EDLC 2.7V(33F)
RoHS	Comply

PRODUCT DATASHEET

Size (mm)	107(L) X 42(W) X 28(D)
DC Mains Input	DC + 12V

**Main Parts List**

Item	Model Name	Type	Vendor	Remark
MCU	32-bit STM32F412RGT6	Industrial	ST	OS: RTOS -40°C ~ 85°C
S-Flash	W25Q64FV	Industrial	Winbond	-40°C ~ 85°C
Transceivers	CC1200	Industrial	TI	-40°C ~ 85°C Wi-SUN support
780 – 960 MHz RF Front End	RFX1010	Industrial	RFaxis	-40°C ~ 125°C Wi-SUN support Integrated PA, LNA, RF Switches, Matching Network, and harmonic filters.
Other	R/L/C etc.	Industrial	Murata	-