



Simoco Pulse Telemetry Solutions

Pulse AIR



Pulse AIR Data Modem

The Simoco Pulse Air Data Modem is a DMR Tier III radio modem for wireless communications in remote SCADA telemetry systems. The unit enables third party RTUs to be wirelessly connected to the SCADA telemetry network using DMR Tier III technology and DNP3 protocol.

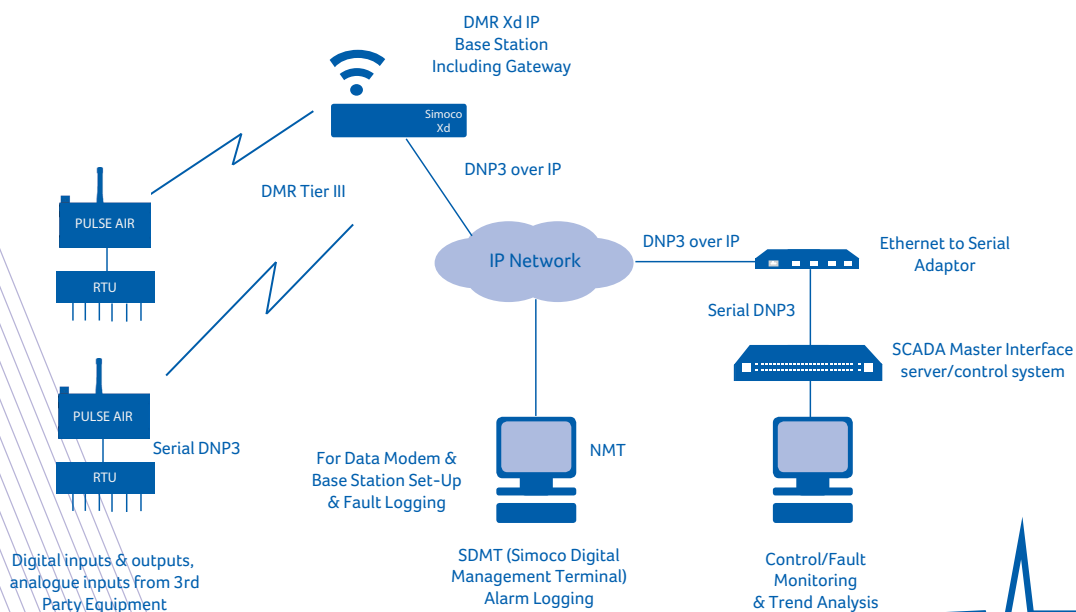
Simoco Xd DMR Tier III Telemetry Products contain a 5 Watt DMR modem, one serial interface and power supply.

The units recognises standard DNP3 protocol. This unique characteristic coupled with powerful DMR Tier III features like secondary control channel and short data make the Xd DMR Tier III telemetry products a powerful all-in-one DMR Data solution, perfectly suited for applications requiring intelligent remote equipment information gathering.

The range of Simoco Xd DMR Tier III Telemetry Products enables devices to be easily deployed into a wide range of industry sectors for the monitoring and control of equipment such as switches, valves, pumps and control modules.

Benefits

- Seamlessly share DMR Tier III systems with voice and other data users
- Industry standard interface protocol DNP3.



Specifications

Pulse AIR



General Specification

Frequency Bands	VHF:136–174MHz UHF:400–480MHz UHF:440–520MHz
Dimensions	62 mm (H) x 80 mm (W) x 162 mm (D)
Weight	550g
Power Supply	12 - 14V DC
Channel Spacing	12.5 kHz
Frequency Stability	+/-2 ppm
Channel Capacity	2000
Emissions Masks	7K60FXD (data) for 4FSK modulation
Enclosure	Anodized aluminium with plastic ends according to DIN 43880
Mounting	35 mm DIN rail
Protocol	DNP3
Input/Outputs	Serial (DB9-F)

Environmental

Storage Temperature	-40°C – +80°C
Operating Temperature	-20°C – +60°C
Sustainability	Waste Electrical and Electronic Equipment (WEEE) and Restriction Hazardous Substances (RoHS) compliant

Transmitter

RF Power Output	5 W (programmable)
Modulation Limiting	+/-2.5 kHz @ 12.5 kHz
FM Hum and Noise	40 dB (TIA-603-B)
Conducted / Radiated Emission	-36 dBm
Adjacent Channel Power	-60 dBc @ 12.5 kHz

Receiver

Digital Sensitivity	-117.5 dBm (1% BER)
Intermodulation	65 dB (ETS086-1)
Adjacent Channel Selectivity	60 dB @ 12.5 kHz (ETS086-1)
Spurious Rejection	70 dB (ETS086-1)
Hum and Noise	40 dB (TIA603-B)
Conducted Spurious Emission	-57 dBm

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