



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.

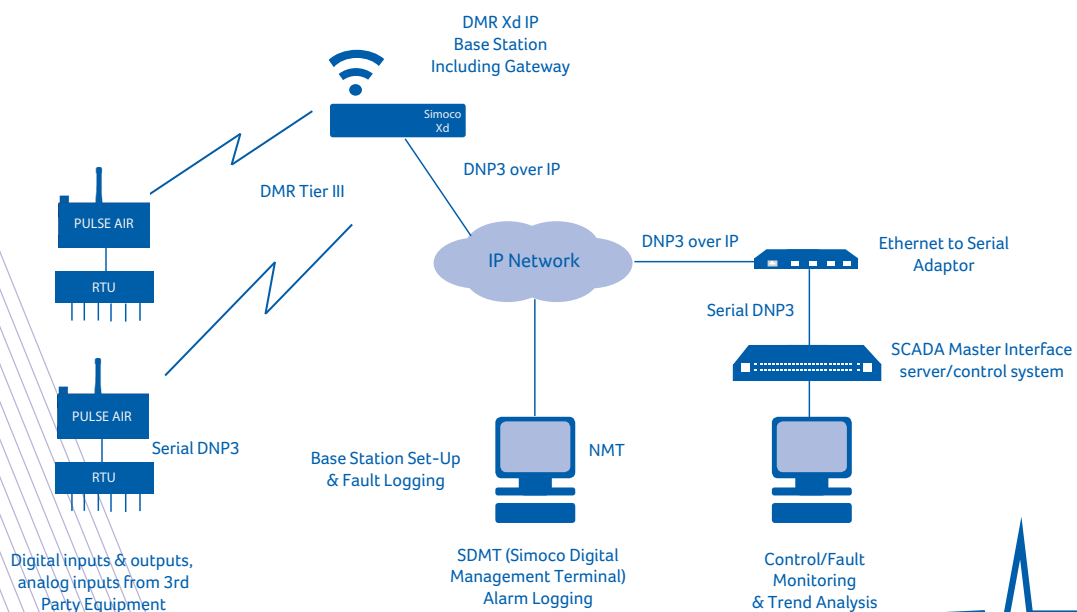
Simoco Xd DMR Tier III Telemetry Products contain a 5 Watt DMR Tier III modem, one serial interface and power supply.

The units recognizes standard DNP3 protocol. This unique characteristic coupled with powerful DMR 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 aluminum with plastic ends according to DIN 43880 |
| Mounting | 35 mm DIN rail |
| Protocol | DPN3 |
| 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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