



# PARROT SYSTEM PAR 4 TX/RX



**The Marchwood PAR 4 is a "one to one" wireless cable replacement system consisting of a paired transmitter and receiver.**

**It is designed to remove the requirement of installing expensive cable and cable containment.**

**The transmitter and receiver are designed to fit on a standard DIN rail.**

The Modules are based on the Texas Instruments CC430F5137 System-on-Chip device to provide an intelligent radio sub-system that combines a high performance RF transceiver, RF band pass filters (BPF), an MSP430 microcontroller, 32Kb flash memory, non-volatile flash storage, temperature sensor, and a low drop voltage regulator. 10 bit resolution giving better than 0.5% accuracy.

The device operates on the International licence exempt Industrial, Scientific and Medical (ISM) radio bands.

System has a 500 metre range and low power operation. Range can be extended to 10,000 metres with external antennas.

## FEATURES

- Clips onto standard DIN rail
- Monitored for power and Tx/Rx failure
- Easy view LEDs for operational status
- Power supply module available
- AES 120 bit data encryption
- Modules requires a nominal 24vDC supply
- RX and TX can be fitted with external antennas



## MODULES

- Dispatched as a paired set of modules, transmitter and receiver
- 4 volt free (dry) contacts in, 4 volt free (dry) contacts out
- Contacts rated at 220V@ 1 amp

## CERTIFICATION

- ISM Frequency Bands 433 & 868MHz (UK & Europe) & 915MHz (USA)
- Radio Compliance: ETSI RED (Europe) & FCC Certified (USA) IC (Canada) requirements
- UKCA compliant
- CE marked
- Power Supply



## OPTIONS

- SMA connection for external antenna
- Use one I/O to monitor for power and transmission failure

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