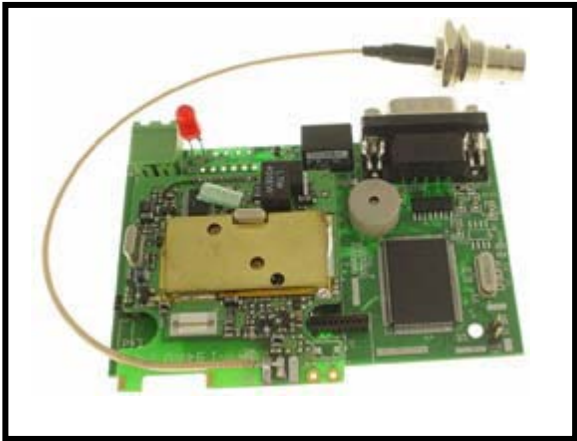




PSR3000 Paging Serial Data Receiver



General Description

The PSR3000 is a powerful but low cost paging receiver/decoder with a single serial data or TTL output. It incorporates an M16 processor which provides a significant amount of data processing capability. The PSR3000 is designed for OEM integration into other equipment to “paging enable” that equipment however given its significant processing capability it can often be used also as the primary controller for other equipment at the same time that it is acting in its primary role as a paging receiver/decoder. Applications it may be used for include a wide range of data control applications such as, remote control, LED sign control, power load shedding, irrigation control etc.

The PSR3000 also provides up to 4 digital control outputs or may be interfaced with the RCM2000 Relay Control Board for multiple relay output. The PSR3000 is often used to replace old legacy receivers such as the CretaLink® FLX PDR however it actually has considerably greater processing capability and programmability than any other similar looking device in the market.

Applications

- | | | |
|------------------|----------------------------|-----------------|
| Remote control | Telemetry | |
| Remote switching | Irrigation controllers | Pocsag encoding |
| LED Sign control | Broadcast services | Warning systems |
| Remote rebooting | Plant monitoring & control | Data transfer |

Features

- | | |
|---|-----------------------|
| Small footprint | Low power consumption |
| Interchangeable receivers for different frequency bands | Pocsag encoder output |
| Programmable serial or TTL data output | |
| 2 Relay and 3 digital outputs | |

Receiver Synthesized

Selectivity		better than 60 dB
Frequencies		148-174, 450-470, 929-932 MHz
Image Rejection		better than 55 dB
Spurious Rejection		better than 55 dB
Protocol		Pocsag
Frequency Stability		10 ppm at -10C~+60C
Channel Spacing		25 KHz
Power	1	2VDC Nominal 150mW @ 12V
Data Transmission Rate		512-2400 bps (Pocsag)
Physical		92 x 65 x 16mm (~3.5 x 2.25 x .75in)
Frequency Deviation		+/- 4,5 KHz
Enclosure (Optional)		120 x 75 x 32mm (~4.8 x 2.8 x 1.25 in)
Receiving Sensitivity		5 uV at 1200 bps
Temperature Range		-10oC to 70oC