



ER400TRS-03 Data Sheet Flyer.pdf

UHF Bandwidth Selectable Transceiver.

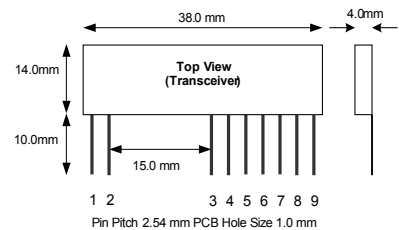
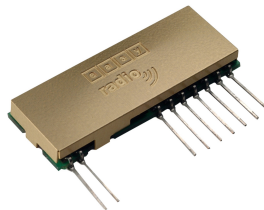
Introduction to easy-Radio 03 range of modules.

The 03 version of easy-Radio represents the 3rd generation which builds on the success of the 02 series modules with the addition of characteristics that increase the suitability in more demanding environments. For the first time ever, a radio module can now be programmed via the familiar er command interface to change from wide band radio to narrow band channels down as low as 12.5KHz. This selectable bandwidth feature makes the new series sensitive, with obvious advantage of increased range of operation. Six bandwidth ranges can be selected: 12.5KHz ; 25KHz ; 50KHz ; 100KHz ; 150KHz ; 300KHz. For those wishing to keep compatibility with 02 devices, a command enables this so that all channels are compatible with the 02 series. (in most cases, no software changes will be necessary).

Pin4pin compatibility with original designs have been maintained to make upgrade path to 3rd generation modules as straight forward as possible making a direct plug-in replacement upgrade effective and affordable.

Additional features over 02 devices include:-

- Bandwidth Selection.
- In-built Temperature Measurement.
- Digital RSSI.
- Carrier Detect.
- Free Flash Upgrades (Via LPRS Companion Software).



Basic Specifications:

General Features

High sensitivity receiver – typically:
 -107dBm @ 19.2Kbps (100KHz Bandwidth).
 -112dBm @ 4.8Kbps (25KHz Bandwidth).
 -117dBm @ 2.4Kbps (12.5KHz Bandwidth).
 Up to 10mW transmit power (@ 434MHz)

ER 03 Bandwidth commands	Notes
ER_CMD#B0	12.5KHz
ER_CMD#B1	25KHz
ER_CMD#B2	50KHz
ER_CMD#B3	100KHz
ER_CMD#B6	300KHz

Low operating voltage 2.5-5.5 Volts on a single Lithium cell.

Low power consumption: Receiver 21mA.
 Transmitter 25mA.

User Programmable: Frequency channels.
 Data rate.
 Output power.

Applications

- Handheld terminals
- Environmental Sense & control
- Transportation Data transfer
- Remote Data Acquisition
- Electronic POS equipment
- Entertainment & Leisure