

PRODUCT BRIEF

STARTER KITS

Micro Linear Starter Kits allow novice and expert radio designers alike to quickly and easily establish and evaluate a radio link between two Micro Linear transceiver devices. Using a standard Windows-based personal computer, customers can modify radio link parameters and program the devices interactively.

The following Starter Kits are available:

- **ML5800SK-02 – 5.8GHz Starter Kit (ML5800)**
- **ML2724SK-02 – 2.4GHz Starter Kit (ML2724)**
- **ML2722SK-02 – 900MHz Starter Kit (ML2722)**

All Starter Kits contain: two radio boards, two baseband boards, two antennas, two power supplies, sample code, and full documentation (user's guide, schematic, BOM, theory of operation, and sample code).

Starter Kit Features

- Fully working wireless radio system
 - Frequency-Agile Radio (12-59 channels)
 - 1.536Mbps data rate
 - 16-22dBm TX Output Power
 - -95dBm Sensitivity @ 0.1% BER
- USB or Serial PC Communications
 - USB, Battery, or AC Powered
 - Modular radio design module
 - Low-cost Microchip PIC Microcontroller
 - PC GUI
 - Powerful Software Suite
 - Clear Channel Assessment
 - Power Spectral Density Evaluation
 - Spectrum Analyzer Display
 - Simple Wireless Modem Protocol
 - AT-Command Set Support
 - Packet Error Rate Testing

Starter Kit Benefits

- Quickly set up and evaluate a real wireless link
- Evaluate & Program Micro Linear Transceivers
- Develop and run simple PIC-based applications
- Get to market quicker

Wireless Applications

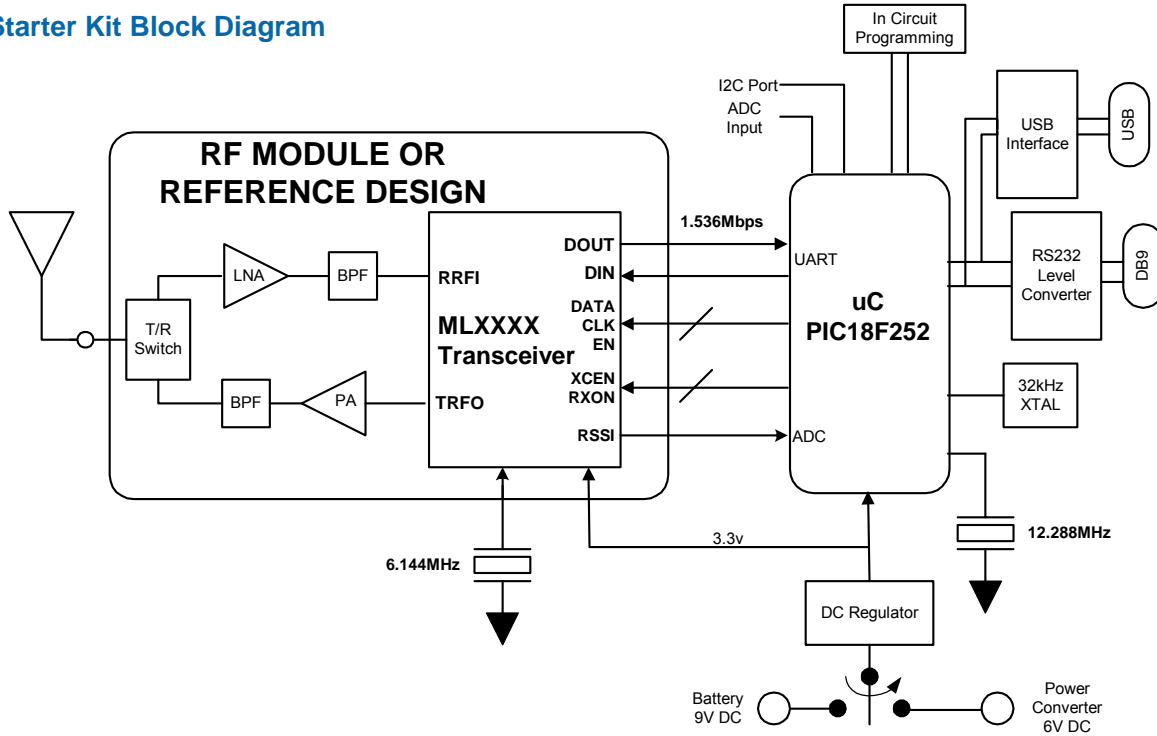
- Digital Cordless Telephones
- Wireless Audio Headsets & Wireless Speakers
- Wireless Video & Security Systems
- Game Controllers
- Wireless Remote Controls
- Wireless Home Networking
- Remote Telemetry & Industrial Controls
- Point-of-Sale/Vending Equipment
- Wireless Computer Peripherals



WORKING REFERENCE DESIGNS!

The Micro Linear Starter Kit platform supports product development through its ability to interface with all of Micro Linear's Reference Designs. Currently high power (~20dBm) and low power (~0dBm) reference designs are available for 900MHz and 2.4GHz, and a high power 5.8GHz reference design is due to be released in late 2004.

Starter Kit Block Diagram



Starter Kit Performance Parameters

	ML2722SK-02	ML2724SK-02	ML5800SK-02
RF Carrier Frequency	902 to 928 MHz	2400 to 2483 MHz	5725 – 5850 MHz
Modulation	2FSK		
Raw (Over the Air) Data Rate	1.536 Mbps		
Number of Freq Channels	12	40	59
Duplex Method	TDD		
Data Encoding Scheme	Manchester Encoding		
Data Interface to Baseband	Asynchronous UART		
Transmit Power	18 dBm	16 dBm	22 dBm
Transmission Type	Asynchronous Packet		
Receive Sensitivity	-95dBm@10-3BER	-95dBm@10-3BER	-95dBm@10-3BER

Starter Kit Part Ordering Information

PART #	TEMP RANGE	PACKAGE / QUANTITY
ML2722SK-02	25°C	Box / 1 Kit
ML2724SK-02	25°C	Box / 1 Kit
ML5800SK-02	25°C	Box / 1 Kit

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