ww.DataSheet4U.com

Product Profile



MB86A15PMT-G-BND

QPSK Silicon Tuner

December 2002 Edition 1.30

FME/MM/PP/1202

OVERVIEW

Fujitsu's MB86A15PMT-G-BND is a tuner and QPSK demodulator for digital satellite broadcasting in a single 120 pin package. All functions necessary for receiving DVB-S signals (AGC, direct conversion, PLL, QPSK demodulator and FEC) are implemented.

Even inductors and vari-cap diodes for the high frequency oscillation circuit are included. This means that no analogue fine tuning is necessary in mass production.

FEATURES

- DVB-S (SCPC) and DSS compatible
- · No external inductors and variable capacitance diodes required
- Supply voltages: +5V, +3.3V and +2.5V, (30V for tuning is not required)
- Input frequency range: 950MHz to 2150MHz
- Input signal level per channel: typ. -75dBm to -10dBm
- Symbol rates: 1Mbaud to 45 Mbaud
- Carrier capture range: ±5MHz
- · Automatic IQ detection
- Automatic detection of Viterbi code rates (DVB: 1/2, 2/3, 3/4, 5/6, 7/8)
- I²C bus interface
- DiSEqC® 1.x compatible
- Built-in carrier frequency offset monitor (via l²C® bus interface)
- C/N Monitoring function (via I²C® bus interface)
- Total power consumption: less than 1.5W (at 45Mbaud, decreases at lower baud rates)
- Package: 120 pin plastic LQFP (FPT-120P-M21)
- Ambient temperature: 0°C to +70 °C
- Application programming interface software (API) in source code will be provided by Fujitsu.
- Evaluation board including monitor software for PC is available.
 This software offers graphical BER display, bargraphs for signal strength/quality and transponder administration including DiSEqC control.



Part No.	Description			
MB86A15PMT-G-BND	Single Chip QPSK Silicon Tuner			
MB86A15PMT-G-BND-E1	 Single Chip QPSK Silicon Tuner, E1: Lead(Pb) free package 			
MB86A15-DK01	Development Kit for MB86A15PMT-G-BND, including: Development Kit for MB86A15PMT-G-BND, including:			
	Main board, I ² C Interface board, Parallel port cable,			
	Cable for power supply, CDROM storing all documentation and software			
	plus PCB data			
Contact Information	eMail: multimedia_info@fme.fujitsu.com			

I²C is a registered trademark of Philips corporation Windows is a registered trademark of Microsoft corporation DiSEqC is a registered trademark of Eutelsat





MB86A15PMT-G-BND

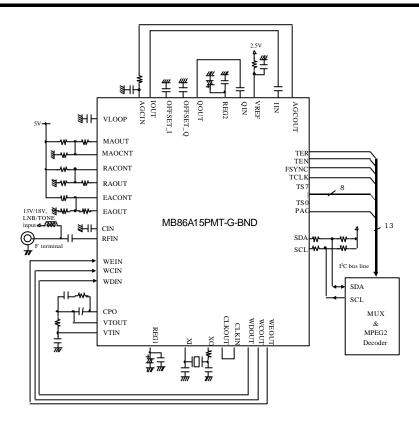


Figure 1: Basic Connection Example

Worldwide Headquarters

		•	

Japan

Tel: +81 3 5322 3353 Fax: +81 3 5322 3386

Fujitsu Limited Marketing Division **Electronic Devices** Shinjuku Dai-Ichi Seimei Bldg.7-1 Nishishinjuku 2-chome, Shinjuku-ku Tokyo 163-0721

Japan

http://edevice.fujitsu.com/

USA

Tel: +1 408 922 9000 Fax: +1 408 922 9179

Fujitsu Microelectronics America, Inc. 3545 North First Street San Jose, CA 95134-1804

USA

Tel: +1 800 866 8608 Fax: +1 408 922 9179 Customer Response Center Mon-Fri: 7am-5pm (PST)

http://www.fma.fujitsu.com/

Asia

Tel: +65 6281 0770 Fax: +65 6281 0220 Fujitsu Microelectronics Asia

PTE Limited

#05-08, 151 Lorong Chuan New Tech Park, Singapore 556741

Tel: +82 2 3484 7100 Fujitsu Microelectronics Korea Ltd. Fax: +82 2 3484 7111 1702 Kosmo Tower, 1002 Daechi-Dong Kangnam-Gu, Seoul 135-280, Korea

http://www.fmal.fujitsu.com/ http://www.fmk.fujitsu.com/

Europe

Tel: +49 6103 690-0 Fax: +49 6103 690122

Fujitsu Microelectronics Europe **GmbH**

Am Siebenstein 6-10

D-63303 Dreieich-Buchschlag

Germany

e-mail multimedia_info@fme.fujitsu.com

http://www.fme.fujitsu.com/

FME/MM/PP/1202 1.30