



Pi Star MikroSAT

The strongest link in your remote communications solution.

Model

Brand	Pi Star Communications
Model	IMIB-1-0.1

MCU

MCU Type	8 bit PIC Microcontroller
MCU Family	PIC18
MCU Model	PIC18F87K22
Oscillator	External 16 MHz
RAM	3862 Bytes
Flash Program Memory	128 KBytes

Storage

External EEPROM	128 KByte external IC controlled by I2C
Internal EEPROM	1024 Byte on MCU

Communication Ports

EUSART-1	Phoenix Connector. RS232 or RS485 selectable by Jumper
UART	RS232 via Phoenix Connector or RJ45
EUSART-2	Dedicated for Iridium 9602 Satellite Modem
I/O Ports	(8) General purpose I/O ports with Analog to Digital Converter capability
Buttons	(5) User programmable buttons (1) Reset button
Antenna	SMA connector for Iridium Modem Antenna

Clock

RTCC	Real Time Clock and Calendar controlled by I2C
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Display

LCD (Optional)	16 x 2 LCD with user programmable backlight
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Physical

Dimensions	4.275" x 4.500"
Supply Power	Phoenix Connector - 9VDC ~ 18VDC input with LED

Features

Modem (Optional)	Connector for Iridium 9602 SBD modem with power LED
ICSP	In Circuit Serial Programming Connector
ICD-Debug	On-board in circuit debugging capability
Power Output	Phoenix Connector - 5VDC
LEDs	(1) Red & (3) Green user programmable LEDs
Supply Power Detect	Supply power voltage level detection

Combining the robust communications ability of Iridium's 9602 modem with one of Microchip's World Class microcontrollers enables the MikroSAT to provide you with a superior solution. Reliability, flexibility, and efficiency were the key objectives in its creation. Designed and manufactured in the USA, you can feel confident that the MikroSAT will provide you with worry-free performance. Numerous features are at your disposal to tailor the MikroSAT to match your needs.

