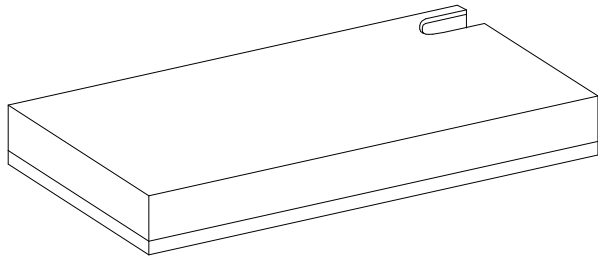
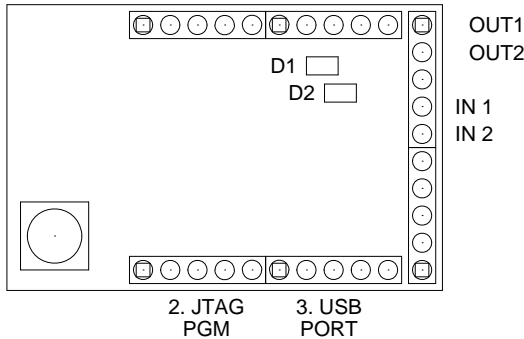


E-ZONE GUARDIAN



**RADIO MODULE
EZR 101-1000**

FRONT



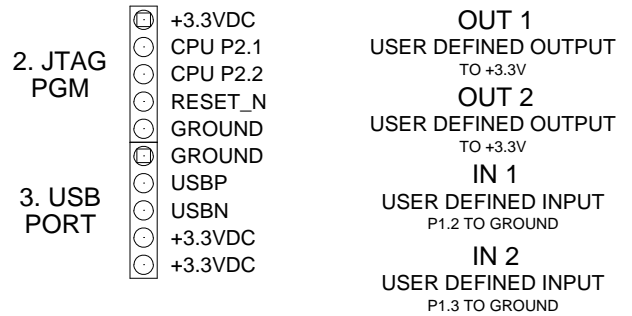
1. ANTENNA PORT

2. JTAG PGM 3. USB PORT

OUT1
OUT2
IN 1
IN 2

1. ANTENNA PORT CONNECTOR
PCB MOUNT: HIROSE PART NUMBER H.FL-R-SMT(10)
FCC CERTIFICATION COMPLIANCE USING DIGI INT'L. ANTENNA
PART NUMBER A24-HASM-450. SUBSTITUTION OF OTHER ANTENNA
MAY INVALIDATE FCC CERTIFICATION.

THE E-ZONE RF MODULE IS INTENDED TO PROVIDE WIRELESS DATA TRANSMISSION BETWEEN TWO LINKED UNITS. THE RF UNIT ACCEPTS DATA OVER AVAILABLE CPU I/O LINES, STORES THE DATA AND PERIODICALLY TRANSMITS IT TO THE OTHER UNIT. DATA MAY MOVE IN ONE OR BOTH DIRECTIONS. UNITS WILL LINK ONLY WITH OTHER UNITS CONTAINING THE SAME INTERNAL ID CODES. UNITS MAY ALSO FUNCTION AS INTERMEDIATE RELAY BY LINKING BETWEEN TWO MODULES WHICH CANNOT COMMUNICATE DIRECTLY WITH



EACH OTHER.
THESE LINKING FUNCTIONS AS WELL AS THE RADIO CONTROL AND FEATURE FUNCTIONS ARE PREPROGRAMMED INTO THE MODULE WHICH UTILIZE TWO READILY AVAILABLE TEXAS INSTRUMENTS PROVEN COMPONENTS. THE CC2591 RF FRONT END INCLUDES PA,LNA,SWITCHES,BALUN, RF MATCHING NETWORK AND INDUCTOR, AND IS IMPLEMENTED TO INCREASE OUTPUT POWER AND IMPROVE RECEIVER SENSITIVITY ON A 2.4GHZ LOW-POWER RF SIGNAL PRODUCED BY THE CC2531, WHICH IS AN IEEE 802.15.4 COMPLIANT RF SYSTEM-ON-CHIP PROGRAMMED TO PROVIDE BOTH FREQUENCY HOPPING AND SPREAD SPECTRUM. THIS DEVICE COMPLIES WITH THE OPERATIONAL AND TIMING REQUIREMENTS OF SECTION 15.231(e) OF THE FCC RULES. THE TIMING REQUIREMENTS ARE PRESET AND FIXED AND NON-ADJUSTABLE BY THE END USER.

INSIDE

BACK

WARNING: END USERS ARE RESPONSIBLE TO ASSURE COMPLIANCE WITH FCC RULES WHEN TRANSMITTING. END USERS MUST INCORPORATE ALL USER WARNINGS AND FCC REQUIREMENTS FOR THEIR EQUIPMENT IN OPERATIONAL MANUALS. INSTALLERS AND USERS OF THIS EQUIPMENT SHOULD BE AWARE OF THE RF EXPOSURE LIMITS SPECIFIED IN SECTION 15.247(b)(4) OF THE FCC RULES.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

OEM ENGINEERS USING THIS E-ZONE RF MODULE ARE CAUTIONED THAT THEY MUST INCLUDE IN THEIR OWN PRODUCT MANUAL THE FOLLOWING WARNING STATEMENT OF FCC PART 15.19:

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

SUPPLIED LABEL P/N 101-001003 OR "CONTAINS FCC ID O4UEZ12031" MUST BE ON THE OEM USER'S FINAL PRODUCT.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

E-ZONE GUARDIAN, PO BOX 774, CEDAR HILL, TX 75106-0774 8-1-12 REV. 1.0