

Ethernet Microcontroller, TTL Programmable Interface, RJ-45 Ethernet Interface with Autosensing, 18 BITS, +5V, D-Sub Connector

The FMAT7001 is an Ethernet microcontroller module which gives Designers the capability to more effectively manage and streamline the BIT command control functions to a programmable RF module by using a PC computer program, or from a remote location via the Internet. The module communicates serially with a controlling PC computer using GUI downloadable software and acts as a TTL programmable interface that sends up to 18 command control BITS. This microcontroller is desirable for use with automated test and measurement and system level applications, and remote sites. The microcontroller uses a standard D-Sub 9 pin male connector for +5V DC bias voltage and ground. A D-Sub 9 pin female mating connector is included. An LED light indicates when Voltage is turned on. Additional connection ports include an RJ-45 socket (Ethernet cable not included) and the TTL output port uses a standard D-Sub 25 pin female socket connector. A D-Sub 25 pin male mating connector is included. The Ethernet circuit features autosensing and comes with a pre-set IP address. A downloadable operating manual is also included. The FMAT7001 provides a TTL programmable interface that works with any device that requires a TTL signal to function. This includes Fairview Microwave's lines of RF Switches, Attenuators, Phase Shifters, and Bi-Phase Modulators. The rugged Mil-Grade package assembly has an operating temperature range from -40°C to +70°C and can withstand noncondensing humidity up to 95%.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
DC Voltage		5		V
DC Current		150		mA
Ethernet Speed	10		100	Mb

Mechanical Specifications

Size	
Length	4.5 in [114.3 mm]
Width	3 in [76.2 mm]
Height	1.5 in [38.1 mm]
Connector 1	D-9 Sub Male



Features:

- Ethernet Microcontroller Module
- TTL Programmable Interface
- 18 Command Control Bits
- Downloadable GUI Software
- +5Vdc Bias Voltage
- D-Sub Interface Connectors for Voltage and TTL Output
- D-Sub Connector Mates Included
- RJ-45 Ethernet Socket
- Downloadable Operating Manual
- -40°C to +70°C Operating Temperature
- Up to 95% Relative Humidity
- Rugged Mil Grade Package Design

Applications:

- Automated Test & Measurement
- System Level Applications
- Remote Sites
- Research & Development
- Military & Commercial Communication Systems
- Radar
- Microwave Radio
- Basestation Infrastructure

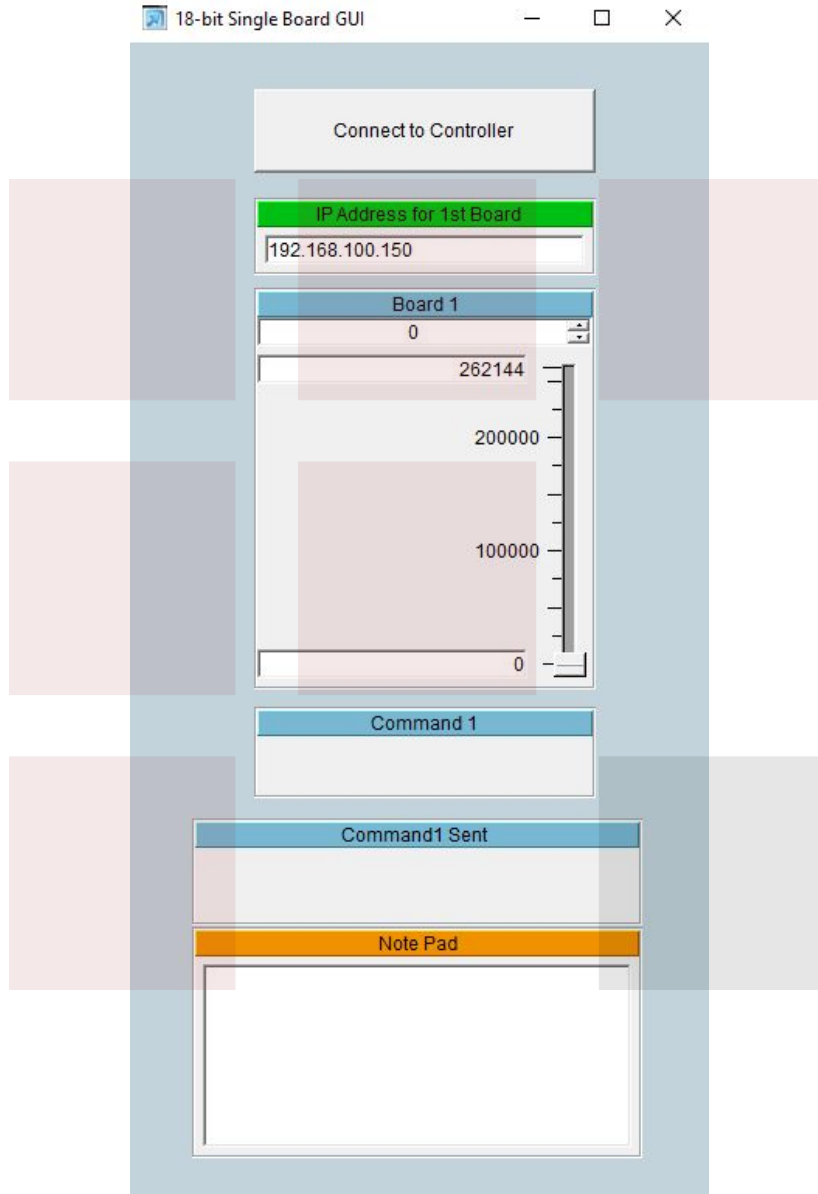
Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Connector 2

D-25 Sub Female

Plotted and Other Data

Performance Data



Ethernet Microcontroller, TTL Programmable Interface, RJ-45 Ethernet Interface with Autosensing, 18 BITS, +5V, D-Sub Connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

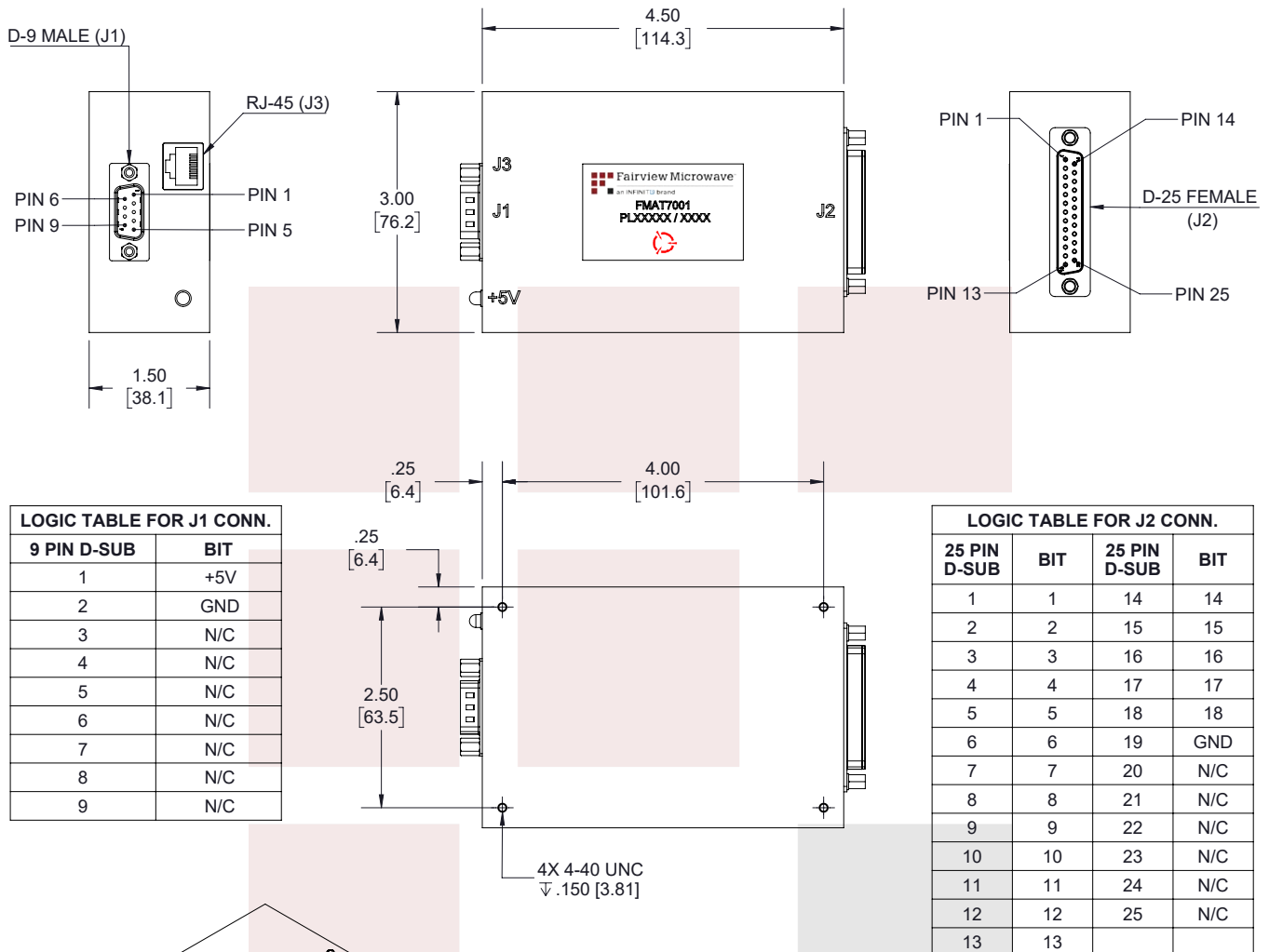
For additional information on this product, please click the following link: [Ethernet Microcontroller, TTL Programmable Interface, RJ-45 Ethernet Interface with Autosensing, 18 BITS, +5V, D-Sub Connector FMAT7001](#)

URL: <https://www.fairviewmicrowave.com/fmat7001-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	8/4/2020	T.GALLA



THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

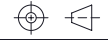
TITLE
Ethernet Microcontroller, TTL Programmable Interface,
RJ-45 Ethernet Interface with Autosensing, 18 BITS,
+5V, D-Sub Connector

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08] FRACTIONS L ≤ 12 [305] = +1 [25] / -0
 .XX = ±.02 [.51] ± 1/32 12 [305] < L ≤ 60 [1524] = +2 [51] / -0
 .XXX = ±.005 [.13] ANGLES ± 1° 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
 300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMAT7001	REV A
-----------	--------------------	--------------------	----------------------	----------

T-Rev.D