

Dual Ethernet Microcontroller, TTL Programmable Interface, RJ-45 Ethernet Interface, 18 BITS (x2), +6V, D-Sub Connectors

The FMAT7000 is an dual Ethernet microcontroller module that features two Ethernet ports and gives Designers the capability to more effectively manage and streamline the BIT command control functions of programmable RF modules 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 (x2) command control BITS. This microcontroller is desirable for use with automated test and measurement and system level applications, and remote sites. The microcontroller has a DC voltage socket that requires +6Vdc (mating connector pin included). For on/off control, the package incorporates a convenient red LED lit push button. Connection ports include two RJ-45 sockets (Ethernet cables not included) and two TTL output ports that use standard D-Sub 25 pin female sockets. A set of two (2) D-Sub 25 pin male mating connectors are included. A downloadable operating manual is also included. The FMAT7000 dual microcontroller module 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
TTL Protect		1		Kohm
Voltage Protect		10		V
DC Voltage		6		V
DC Current		1		A
Bit Count		18		
Digital Output	0		5	V
Switch	Red LED Lit Push Button			

Mechanical Specifications

Size	
Length	6 in [152.4 mm]
Width	5 in [127 mm]
Height	1.25 in [31.75 mm]
Weight	1 lbs [453.59 g]
Material and Plating	Plated Nickel
Connector 1	25 Pin D-Sub Female



Features:

- Dual Microcontroller Module
- TTL Programmable Interface
- 18 (x2) Command Control Bits
- Downloadable GUI Software
- +6Vdc Bias Voltage
- Mating Voltage Connector Pin Included
- Red LED Lit Push Button
- 2 x RJ-45 Ethernet Sockets
- 2 x TTL Output Ports
- D-Sub 25 Pin Female Sockets
- D-Sub Connector Mates Included
- Downloadable Operating Manual
- -40°C to +70°C Operating Temperature
- 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

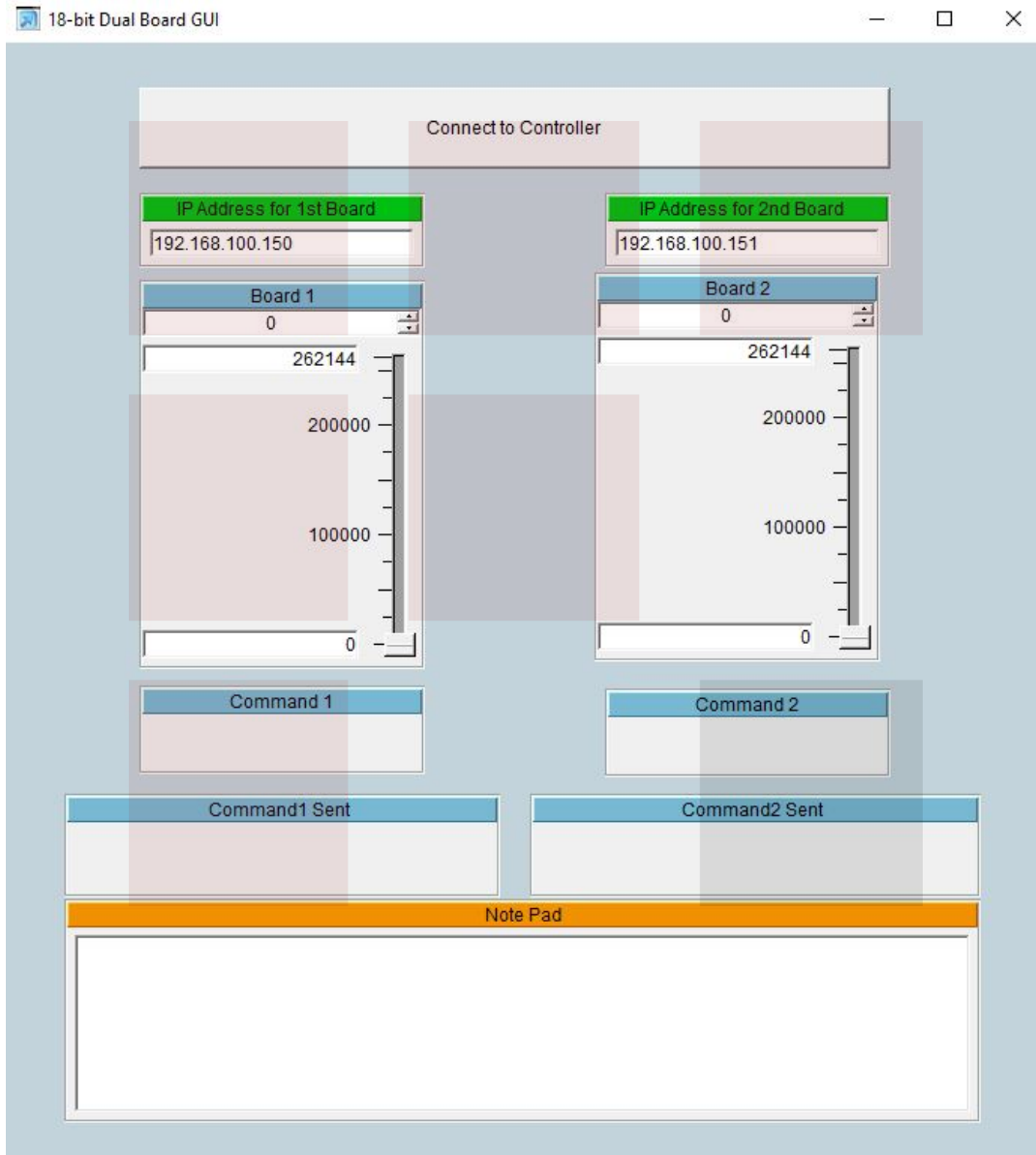
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Connector 2
Power Connector
Ethernet Connector

25 Pin D-Sub Female
2.1mm ID x 5.5mm OD DC Connector
RJ-45 (x2)

Plotted and Other Data

Performance Data



Dual Ethernet Microcontroller, TTL Programmable Interface, RJ-45 Ethernet Interface, 18 BITS (x2), +6V, D-Sub Connectors 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: [Dual Ethernet Microcontroller, TTL Programmable Interface, RJ-45 Ethernet Interface, 18 BITS \(x2\), +6V, D-Sub Connectors FMAT7000](#)

URL: <https://www.fairviewmicrowave.com/fmat7000-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.



2.14 [54.4] 2.86 [72.6]

POWER CONN.
(2.1mm ID X 5.5mm OD)

2X RJ-45

1.25 [31.8]

.37 [9.3] TYP

3.00 [76.2] .63 [15.9]

6.00 [152.4]

.250 [6.35]

5.50 [139.7]

.250 [6.35]

J1 ETHERNET INPUT J2 POWER J3 ETHERNET PORT

4X Ø .250 [6.35] THRU HOLES

5.00 [127]

4.50 [114.3]

Fairview Microwave
BY COMPONENTS ON DEMAND *Done!*

FMAT7000
S/N: PLXXXX/XXXX

LOGIC OUTPUT J4 LOGIC OUTPUT J5

.63 [15.9] TYP

1.40 [35.6] 3.20 [81.3]

2X 25 PIN D-SUB FEMALE

3.00 [76.2]

RED LED LIT PUSH BUTTON

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	UPDATE COMPONENT VIEWS	11/22/21	T.GALLA

DETAIL A

LOGIC TABLE FOR J4 & J5 CONN.			
25 PIN D-SUB	BIT	25 PIN D-SUB	BIT
1	1	14	14
2	2	15	15
3	3	16	16
4	4	17	17
5	5	18	18
6	6	19	GND
7	7	20	N/C
8	8	21	N/C
9	9	22	N/C
10	10	23	N/C
11	11	24	N/C
12	12	25	N/C
13	13		

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TITLE

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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

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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMAT7000	REV B
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T-Rev.D