EOM-104 Series Quick Installation Guide

Moxa Embedded Ethernet Switch Module

Version 4.2, January 2021

Technical Support Contact Information www.moxa.com/support



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P/N: 1802001040015

Overview

The EOM-104 Series Ethernet switch module provides an easy, cost-effective, and integrated solution for device manufacturers to embed an Ethernet switch module into an existing product for enhanced performance and reliability.

The module supports 10/100 Mbps Fast Ethernet, and comes with Turbo Ring's fast recovery time of under 20 ms built in. The EOM-104 Series also provides a rich set of peripherals (e.g., GPIO programming pins and DIP switches to enable Turbo Ring) and is an ideal solution for embedded Ethernet applications.

Package Checklist

The EOM-104 Series Evaluation Kit package contains the following items:

- EOM-104 series module
- EOM-104 series evaluation board
- Universal power adaptor
- 2 power cords
- Null modem serial cable
- Cross-over Ethernet cable
- Accessories pack
- Quick installation guide (printed)
- Warranty card

Note: Please notify your sales representative if any of the above items are missing or damaged.

First-Time Installation and Configuration

Before installing the EOM-104 Series, please check to make sure that all items in the Package Checklist are in the box.

Hardware Installation Procedure

Step 1: Plug the EOM-104 Series into the evaluation board.

Plug the EOM-104 Series module into the sockets on the top of the evaluation board

Step 2: Connect the power source to the evaluation board.

Connect the 12 VDC power line to the evaluation board's power jack.

Step 3: Connect the network cable to the evaluation board.

Use the RJ45 Ethernet cable to connect the Ethernet port on the evaluation board to an Ethernet network for evaluation.

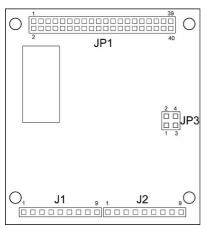
Step 4: Set up the computer's IP address.

In a Windows environment, the IP address can be changed in the TCP/IP Settings window. Select an IP address on the same subnet as the EOM-104 Series. Since the default IP address of the EOM-104 is 192.168.127.253, and the subnet mask is 255.255.255.0, you should set the IP address of the computer to 192.168.127.xxx.

Step 5: Configure the EOM-104 Series.

Please refer to EOM-104 Series User's Manual.

Layout of the EOM-104 Series



Pin Assignment

JP1 (2x20 connector pin assignment)

PIN	1	3	5	7	9	11	13	15	17	19
SIGNAL	TX2 -	RX2 -	NC	RX1 +	TX1 +	NC	GND	3.3V	GND	DTR

PIN	2	4	6	8	10	12	14	16	18	20
SIGNAL	TX2 +	RX2 +	NC	RX1 -	TX1 -	NC	GND	3.3V	GND	DSR

PIN	21	23	25	27	29	31	33	35	37	39
CTCNAL		GPIO 1	CDTO 2	MASTER	MASTER	PORT	PORT	MANUAL	3.3V	
SIGNAL	TXD		GPIO 3	ENABLE	LED	1 LED	3 LED	RESET	5.5V	GND

PIN	22	24	26	28	30	32	34	36	38	40
SIGNAL	RXD	GPIO 2		TURBO RING ENABLE	RING	RESET DEFAULT			3.3V	GND

J1 (1 x 9 connector pin assignment)

PIN	1	2	3	4	5	6	7	8	9
SIGNAL	GND	TX4 +	TX4 -	3.3V	3.3V	FXSD	RX4 -	RX4 +	GND

J2 (1 x 9 connector pin assignment)

PIN	1	2	3	4	5	6	7	8	9
SIGNAL	GND	TX3 +	TX3 -	3.3V	3.3V	FXSD	RX3 -	RX3 +	GND

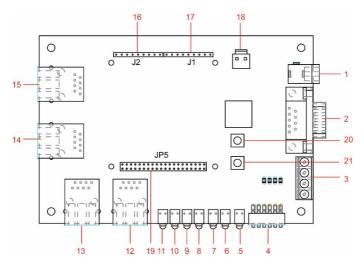
JP3 (2 x 2 connector pin assignment)



Jumpers 1 and 2 for Ring Master Enable

Jumpers 3 and 4 for Turbo Ring Enable

Layout of the Evaluation Board



- 1. 12 VDC Power Jack
- 2. Console Port
- 3. GPIO
- 4. Turbo Ring DIP Switch
- 5. PWR LED
- 6. Turbo Ring LED
- 7. Ring Master LED
- 8. Port 1 LED
- 9. Port 2 LED
- 10. Port 3 LED
- 11. Port 4 LED
- 12. Port 1 10/100BaseT(X)
- 13. Port 2 10/100BaseT(X)
- 14. Port 3 10/100BaseT(X), or 100BaseFX (Turbo Ring Port 1)
- 15. Port 4 10/100 BaseT(X), or 100BaseFX (Turbo Ring Port 2)
- 16. J2 Connector (Connect to EOM-104 J1)
- 17. J1 Connector (Connect to EOM-104 J2)
- 18. 3.3VDC Power Connector
- 19. JP5 Connector (Connect to EOM-104 JP1)
- 20. Reset to Default Button
- 21. Manual Reset Button

Turbo Ring DIP Switch Setting



	ON	OFF
DIP1	Enable this EOM as	This EOM will not
	the Ring Master	be the Ring Master
DIP2	Activate Turbo Ring	Do not use Turbo
		Ring
DIP3	GPIO Reserve	GPIO Reserve
DIP4	GPIO Reserve	GPIO Reserve
DIP5	GPIO Reserve	GPIO Reserve
DIP6	GPIO Reserve	GPIO Reserve

Specifications

StandardsIEEE 802.3 for 10BaseTIEEE 802.3u for 100BaseT(X) and 100BaseFXIEEE 802.3v for flow controlIEEE 802.1D for Spanning Tree ProtocolIEEE 802.1p for Class of serviceProtocolsSNMPv1/v2c/v3, DHCP Client, BootP, TFTP, SMTP, RARP, RMON, HTTP, Telnet, SyslogMIBMIB-II, Ethernet-Like MIB, P-Bridge MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9Flow ControlIEEE 802.3v flow controlInterfaceEthernet PortsEOM-104: 4 10/100BaseT(X) EOM-104-FO: 2 10/100BaseT(X) and 2 100BaseFXConnectors1 connector with 2 x 20 pins and 2 connectors with 1 x 9 pinsConsole PortRS-232 (TxD, RxD, DTR, DSR)GPIO4 programmable I/O pinsPower RequirementsInput Voltage3.3VInput CurrentEOM-104: 0.48 A @ 3.3 V EOM-104-FO: 1.1 A @ 3.3 VPhysical CharacteristicsDimensions54 x 60 x 8.25 mm (2.13 x 2.36 x 0.32 in)Environmental LimitsOperating-40 to 75°C (-40 to 167°F)emperatureStorage Temperature4u to 75°C (-40 to 185°F)Ambient Relative5 to 95% (non-condensing)HumidityRegulatory ApprovalsEMIFCC Part 15, CISPR 32 class A, CE class ANote: Please check Moxa's website for the most up-to-date certification status.Warranty	Technology	
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Warranty Daried E years	Warranty	
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Details See www.moxa.com/warranty		