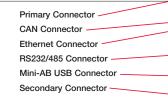






Ine IWR-SER module





Jumpered Options

The following is a list of all the jumpered options. The default installed jumper settings are shown in bold.

Jumper	Option	Setting	Description
J2	Ethernet PHY Clock Select	1-2	25 MHz
		3-4	50 MHz
		5-6	CLOCKOUTO
J3	CLOCKIN0 Driver Select	1-2	Route 25MHz clock to CLOCKIN0
		2-3	Route 50MHz clock to CLOCKIN0
J5	CAN Selection Options	1-2	Put CAN transceiver into sleep mode
		3-4	Connect Sleep pin to CAN pin (B43)
		5-6	Connect RXD pin to CANRX pin (B41)
		7-8	Connect TXD pin to CANTX pin (B42)
		9-10	Apply 120ohm termination resistor
J6	Ethernet PHY Interrupt Select	1-2	IRQ_H
		3-4	IRQ_F
		5-6	IRQ_D
		7-8	IRQ_B
J10	USB VBUS Select	1-2	Supply 5V on USB Connector (Host Mode)
		2-3	Source 5V from USB (Bus-powered Device)



Jumper	Option	Setting	Description
J11	USB OTG Interrupt Select	1-2	IRQ_H
		3-4	IRQ_F
		5-6	IRQ_D
		7-8	IRQ_B
	Ethernet PHY Configuration	1-2	Pull-up PHYAD2; PHY Address Select
		3-4	Pull-up PHYAD1; PHY Address Select
		5-6	Pull-down PHYAD0; PHY Address Select
		7-8	Pull-up CONFIG2; Loopback Select
J12		9-10	Pull-up CONFIG0; RMII Select
		11-12	Pull-up ISO; Isolation Mode Select
		13-14	Pull-down SPEED; 10Mbps Select
		15-16	Pull-down DUPLEX; Half-duplex Select
		17-18	Pull-down NWAYEN; Disable Auto-Negotiation
	Misc RS232/485 Config	1-2	Connect RS485 Receive En and Driver En
		3-4	Connect RS485 RX+ to TX+; Loopback
J13		5-6	Connect RS485 RX- to TX-; Loopback
		7-8	Enable ELE_CTS (A9) as RS232 CTS
		9-10	Supply 5V on DB9 pin 6
.115	RS232 / RS485 Select	1-2	RS232
010		2-3	RS485
	USB Mode Select	1-2	Host Mode-supply 5V to VBUS
J16		3-4	Device Mode-source 5V from VBUS
		5-6	OTG Mode-VBUS controlled by OTG Charge Pump
J17	RS232 / RS485 RX Select	1-2	RS232
517		2-3	RS485
J18	RS232 / RS485 RTS Select	1-2	RS232
010		2-3	RS485
J19	RS232 / RS485 TX Select	1-2	RS232
010		2-3	RS485



How to build your Tower

- Press the card edge connector of each Tower module into a slot on the Elevator—take care to match the primary card edges and plug them into a Functional Elevator. A module may be placed into any slot on the Elevator.
- 2. Press another **Elevator** board onto the **secondary** card edges.

TWR-SER Features

- USB Host, Device, and OTG with Mini-AB connector
- 10/100 Ethernet PHY with MII and RMII interface
- Ethernet connector with integrated magnetics and LEDs
- RS232 and RS485 transceivers and single DB9 connector
- CAN transceiver with 3-pin head



Learn more at www.freescale.com/tower

Freescale and the Freescale logo are trademarks or registered trademarks of Freescale Semiconductor, Inc. in the U.S. and other countries. All other product or service names are the property of their respective owners. © Freescale Semiconductor, Inc. 2009.

Doc Number: TWRSERUM / REV 0 Agile Number: 924-76348 / REV A

