

NA24ME0

802.11b/g/n 1T1R High Power mini-PCI Express Module

Technical Specifications

Dimensions

Standards

Data Rate

Output Power & Sensitivity

Operating Frequency

Interface

Recommended Operating Conditions

STANDARDS

Wireless: IEEE 802.11b/g/n (1T1R)
Chipset: Atheros AR9285

DATA RATE

802.11b 1~11Mbps, 802.11g: 6 ~ 54Mbps
802.11n: 65 ~ 150Mbps

OUTPUT POWER & SENSITIVITY

	Data Rate	Tx (RMS) +/- 2dB	Rx +/- 2dB
802.11b/g/n Specification	1Mbps	24dBm	-94dBm
	11Mbps	24dBm	-90dBm
	6-24Mbps	24dBm	-92dBm
	36Mbps	22dBm	-84dBm
	48Mbps	20dBm	-80dBm
	54Mbps	19dBm	-77dBm
	MCS0	24dBm	-91dBm
	MCS1	23dBm	-89dBm
	MCS2	23dBm	-87dBm
	MCS3	22dBm	-84dBm
	MCS4	21dBm	-79dBm
	MCS5	20dBm	-76dBm
	MCS6	19dBm	-74dBm
	MCS7	19dBm	-73dBm
802.11b/g/n	MCS0	24dBm	-88dBm
	MCS1	23dBm	-87dBm
	MCS2	23dBm	-86dBm
	MCS3	22dBm	-81dBm
	MCS4	21dBm	-77dBm
	MCS5	20dBm	-74dBm
	MCS6	19dBm	-73dBm
	MCS7	19dBm	-70dBm

OPERATING FREQUENCY

802.11b/g/n: 2.412 ~ 2.472GHz

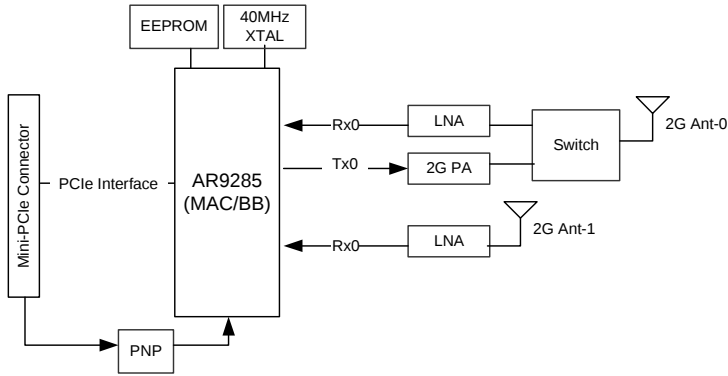
INTERFACE

Digital in: Mini PCI Express / RF Antenna Ports : U.FL x 2 for 1T1R (Rx Diversity)

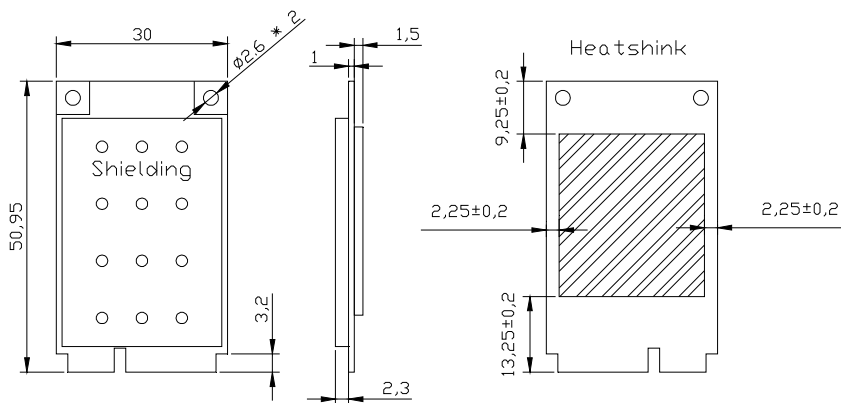
RECOMMENDED OPERATING CONDITIONS

Operating Voltage: DC 3.3V ± 0.1V, Operating Temperature: 0~60℃
Current consumption: Tx mode 1100+/-150mA max. / Rx mode 300+/-50mA max.
Dimension: 30 * 50.95 * 4.8mm (±0.05mm)

■ Block Diagram



■ Physical Dimension (mm)



■ Pin Definition

PIN#	Pin Name	Design Status	PIN#	Pin Name	Design Status
1	WAKE_L	Yes	2	+3.3Vaux	YES
3	GPIO4	NC	4	GND	YES
5	GPIO5	NC	6	+1.5V	NC
7	CLKREQ_L	YES	8	UIM_PWR	NC
9	GND	YES	10	UIM_DATA	NC
11	REFCLK-	YES	12	UIM_CLK	NC
13	REFCLK+	YES	14	UIM_RESET	NC
15	GND	YES	16	UIM_VPP	NC
17	UIM_C8	NC	18	GND	YES
19	UIM_C4	NC	20	W_DISABLE_L	YES
21	GND	YES	22	PERST_L	YES
23	PERu0	YES	24	+3.3V	YES
25	PERp0	YES	26	GND	YES
27	GND	YES	28	+1.5V	NC
29	GND	YES	30	SMB_CLK	NC
31	PETn0	YES	32	SMB_DATA	NC
33	PETp0	YES	34	GND	YES
35	GND	YES	36	USB_D-	NC
37	RESERVED	YES(GND)	38	USB_D+	NC
39	+3.3V	YES	40	GND	NC
41	+3.3V	YES	42	LED_WWAN_L	NC
43	GND	NC	44	LED_WLAN_L	YES
45	RESERVED	NC	46	LED_WPAN_L	NC
47	RESERVED	NC	48	+1.5V	NC
49	RESERVED	NC	50	GND	YES
51	RESERVED	NC	52	+3.3V	YES