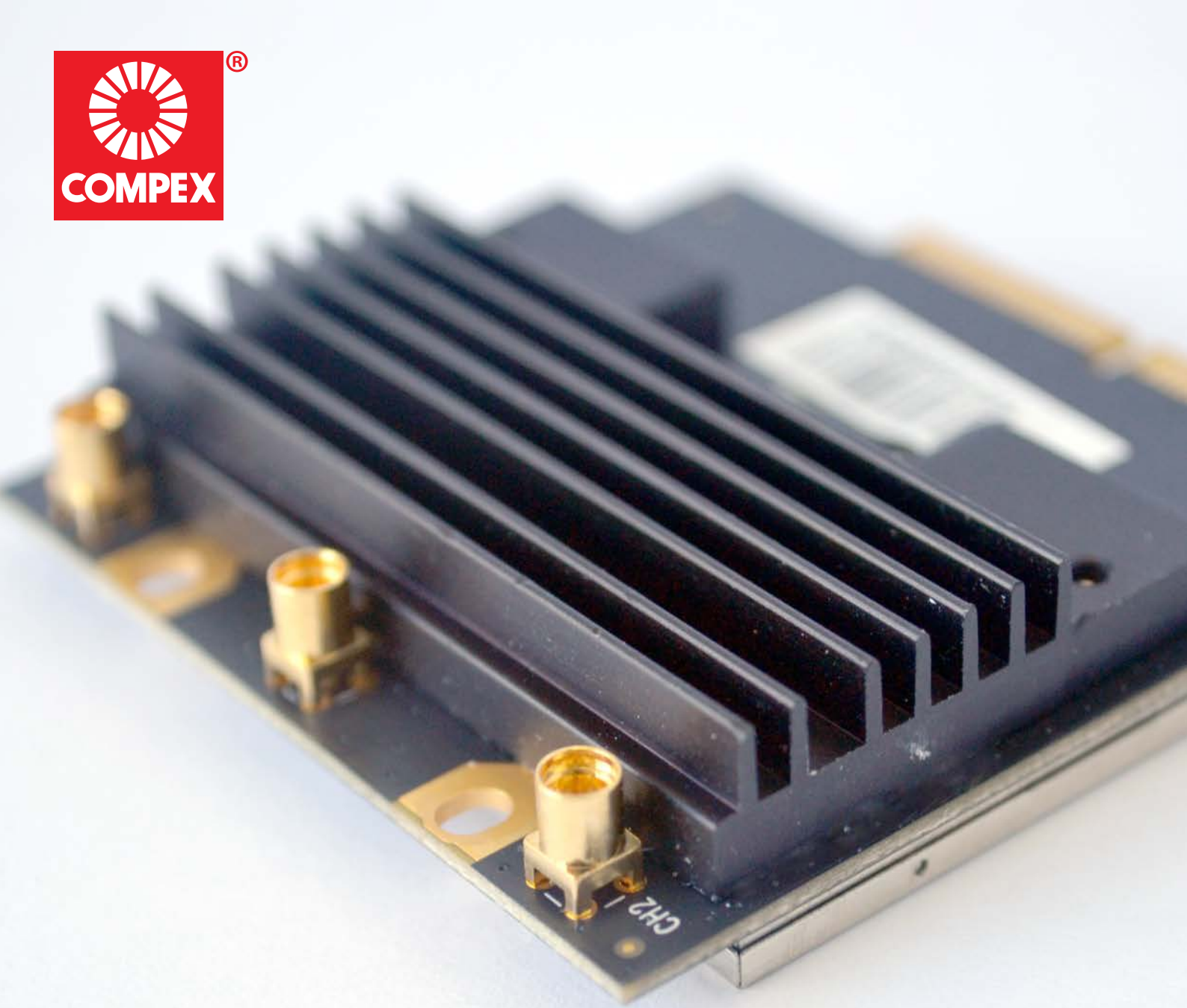
COMPEX®



Wireless Modules

WIRELESS MODULES

QUALCOMM ATHEROS FAMILY OF CHIPSET

Compex MiniPCIe wireless radio modules use chipset based on Qualcomm Atheros chipsets such as 3x3 802.11ac QCA9880 chipset. Their high-performance, high-stability features make them ideal for integrating a wide range of OEM devices.

SINGLE-BAND/ DUAL-BAND WORKING FREQUENCY

Compex Wireless MiniPCIe Card can work under frequency of 2.4GHz, 5GHz and 2.4/5GHz. Customer can choose different products according to their special business needs.

SUPPORT MINIPCIE INTERFACE

Compex wireless radio cards PCI-Express v1.1 standard. It can be used on most of boards, laptops and other platforms.

ELECTRONIC STATIC DISCHARGE

15KeV ESD / EMP Immunity Threshold ESD protection can protect products from damage caused by storms and other inclement weather. It reduces the losses due to such reasons.

ROHS COMPLIANT

Through RoHS certification, we guarantee that the product is safe and harmless.

LATEST 3X3 802.11AC SPEEDS UP TO 1.3GBPS

Compliant with IEEE 802.11ac/abgn standard, MIMO (1x1,2x2, 3x3) Technology enables our radio cards support data rate up to 54 Mbps, 108 Mbps, 150 Mbps, 300Mbps, 450 Mbps, 867Mbps and 1,300Mbps. We provide wireless radio cards with different data rates.

HIGH POWER RADIO MODULES

Compex provide various high power Radio cards (20dBm, 23dBm, 26dBm, 28dBm, 30dBm). It improves range and the actual throughput and shows high receiving sensitivity.

DYNAMIC FREQUENCY SELECTION

Devices can change the working frequency dynamically with the Dynamic Frequency Selection(DFS) function. Its purpose is to avoid the interference between the device itself and other systems, especially radar systems.

ANTENNA CONNECTOR (OPTIONAL)

Compex provides various types of antenna connectors such as MMCX, U.FL, SMA, NType. Customers can choose the most suitable choice according to their requirements.

LOW POWER CONSUMPTION

Compex wireless radio card has low power consumption, heat dissipation and can reduce the equipment load. It provides excellent modules for wireless networking products.

WIRELESS MODULES



HARDWARE SPECIFICATIONS				
TYPE OF CARD	3 x 3 802.11ac	2 x 2 802.11ac	3 x 3 802.11ac	2 x 2 802.11ac
MODEL	**WLE900V5-27ESD**	**WLE600V5-27ESD**	**WLE900VX**	**WLE600VX**
STANDARD	802.11ac/an	802.11ac/an	802.11a/b/g/n/ac	802.11a/b/g/n/ac
SPECTRUM	5Ghz	5Ghz	2.4 / 5Ghz	2.4 / 5Ghz
CHIPSET	AR9880 /AR9890 CUS223 (Referen. Design)	AR9882	AR9880 /AR9890 XB140 (Reference Design)	AR9882
HOST INTERFACE	PCIe 1.1	PCIe 1.1	PCIe 1.1	PCIe 1.1
OPERATING VOLTAGE	5 VDC	5 VDC	3.3 VDC	3.3 VDC
POWER (PER CHAIN)	5GHz @ 27dBm	5GHz @ 23dBm	2.4GHz @ 19dBm 5GHz @ 18dBm	2.4GHz @ 19dBm 5GHz @ 18dBm
POWER CONSUMPTION	10W	7.5W	5W	3.5W
RECEIVER SENSITIVITY	-94dBm @ 6Mbps	-94dBm @ 6Mbps	-94dBm @ 6Mbps	-94dBm @ 6Mbps
ANTENNA CONNECTOR	3 x MMCX	2 x MMCX	3 x U.FL	2 x U.FL
HUMIDITY	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)
ENVIRONMENT SPECIFICATIONS	Operating: -20°C to 70°C Storage: -40°C to 90°C	Operating: -20°C to 70°C Storage: -40°C to 90°C	Operating: -20°C to 70°C Storage: -40°C to 90°C	Operating: -20°C to 70°C Storage: -40°C to 90°C
RoHS COMPLIANCE	✓	✓	✓	✓






HARDWARE SPECIFICATIONS						
TYPE OF CARD	3 x 3 802.11n	3 x 3 802.11n	2 x 2 802.11n	2 x 2 802.11n	2 x 2 802.11n	2 x 2 802.11n
MODEL	**WLE350NX**	**WLE350N5-25**	**WLE200NX**	**WLE200N5-23-ESD**	**WLE250NX**	**WLE200N2**
STANDARD	802.11a/b/g/n	802.11ac/an	802.11a/b/g/n	802.11a/n	802.11 a/b/g/n	802.11 b/g/n
SPECTRUM	2.4 / 5Ghz	5Ghz	2.4 / 5Ghz	5Ghz	2.4Ghz	2.4Ghz
CHIPSET	AR9580 / AR9590 XB116 (Reference Design)	AR9580 /AR9590 CU-191 (Reference Design)	AR9280 XB92 (Reference Design)	AR9280	AR9582/AR9592 XB116 (Reference Design)	AR9287 HB97 (Reference Design)
HOST INTERFACE	PCIe 1.1	PCIe 1.1	PCIe 1.1	PCIe 1.1	PCIe 1.1	PCIe 1.1
OPERATING VOLTAGE	3.3 VDC	5 VDC	3.3 VDC	3.3 VDC	3.3 VDC	3.3 VDC
POWER (PER CHAIN)	2.4GHz@19dBm 5GHz@20dBm	5GHz @ 27dBm	2.4GHz@18dBm 5GHz@17dBm	5GHz @ 23dBm	5GHz @ 23dBm	5GHz @ 23dBm
POWER CONSUMPTION	3.5W	5W	1 - 2.3W	1.2 - 2.8W	3.5W	1.8 - 1.9W
RECEIVER SENSITIVITY	-94dBm @ 6Mbps	-94dBm @ 6Mbps	-94dBm @ 6Mbps	-96dBm @ 6Mbps	-94dBm @ 6Mbps	-96dBm @ 11Mbps
ANTENNA CONNECTOR	3 x U.FL	3 x MMCX	2 x U.FL	2 x U.FL	2 x U.FL	2 x U.FL
HUMIDITY	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)
ENVIRONMENT SPECIFICATIONS	Operating: -20°C to 70°C Storage: -40°C to 90°C	Operating: -20°C to 70°C Storage: -40°C to 90°C	Operating: -20°C to 70°C Storage: -40°C to 90°C	Operating: -20°C to 70°C Storage: -40°C to 90°C	Operating: -20°C to 70°C Storage: -40°C to 90°C	Operating: -20°C to 70°C Storage: -40°C to 90°C
RoHS COMPLIANCE	✓	✓	✓	✓	✓	✓