



NOVASOM  
INDUSTRIES

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Embedded Systems

# WIFI CARDS & ANTENNAS

## SKILLS AND TARGET MARKET

**Novasom Industries Wi-Fi cards** are fully compatible with any mPCIe slot. Ready to be used on any Novasom (driver preloaded into any kernel of any Novasom board).

This little and powerful Wi-Fi card offers a longevity of 10 years and a fully working solution.

To offer a flexible solution, are available two different versions, equipped with two different chip, offering one or two antennas and 150 or 300 Mb/s performance on 801.11 N Wi-Fi protocol.

With the unit, on request, can be offered with interface cable between UFL connector and antennas that can be panel mounted, and two different type of antenna with different gain and radiation path.

Because we think to the solution!

## UNIQUE SELLING POINTS

- mPCIe slot using only USB part: save your PCIe lane for other things that really need it
- Two modules, two different kind of solutions
- Two kind of pre-approved antennas, for any fields problem
- Fully Certified, CE and FCC
- Longevity program
- Preloaded Kernel on any NOVASom: no surprise.
- Available free example of code to do what you want, moreover the protocol datalink.

Visit [www.novasomindustries.com](http://www.novasomindustries.com) for details



UP TO 5 YEARS TOTAL WARRANTY  
 5/10 YEARS LIFETIME AVAILABILITY  
 ONLY INDUSTRIAL COMPONENTS  
 FOR MULTIMEDIA & HMI SMART  
 DEVICE APPLICATIONS



3x 4K ULTRA HD

NXP ARM RASPMOOD

we have

**SOLUTION**

for you



**STANDARD  
PRODUCTS**

	<b>MPCIE-WIFI-1A</b>	<b>MPCIE-WIFI-1C</b>
TYPE	Mini PCI Express Wi-Fi(Standard) Card Single Antenna	Mini PCI Express Wi-Fi(Standard) Card Double Antenna
Module Interface	USB 2.0 on mPCIe	USB 2.0 on mPCIe
WIFI Standard	IEEE 802.11b/g/n	IEEE 802.11b/g/n IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i
Antenna Connector	1 x U.FL-R-SMT-1	2 x U.FL-R-SMT-1
Frequency Bands	ISM 2.4GHz	ISM 2.4GHz
Certification	FCC, CE, EMC and RoHS	FCC, CE, EMC and RoHS
Modulation Techniques	802.11b:CCK(11, 5.5Mbps), QPSK(2Mbps), BPSK(1Mbps) 802.11 g/n: OFDM	802.11b: CCK(11, 5.5Mbps), QPSK(2Mbps), BPSK(1Mbps) 802.11 g/n: OFDM
Security	WPA, WPA-PSK, WPA2, WPA2-PSK, WEP 64bit & 128bit	WPA, WPA-PSK, WPA2, WPA2-PSK, WEP 64bit & 128bit
PHY Data rates	802.11b: 11,5.5,2,1 Mbps 802.11g: 54,48,36,24,18,12,9,6 Mbps 802.11n: up to 150Mbps	802.11b: 11,5.5,2,1 Mbps 802.11g:54,48,36,24,18,12,9, 6 Mbps 802.11n: up to 300Mbps
Operating temperature	0 to +55°C	0 to 70°C
Driver supported	Android/ Win 8 /Win 7 /Vista/ Linux/ Win CE /Windows XP	Android/ Win 8 /Win 7 /Vista/ Linux/ Win CE /Windows XP

**ANTENNAS**

With the WIFI cards also various antennas models are available:

- Code **ANT-PATCH**: patch antenna suitable for installation inside plastic chassy
- Code **ANTENNA-WIFI-A**: dipole antenna, panel mounted, 16dbi, suitable for same plane working (100mm antenna cable included)
- Code **ANTENNA-WIFI-C**: dipole antenna, panel mounted, 6dbi, pure isotropic suitable for multi-layer working (100mm antenna cable included)



**ANTENNA-PATCH**



**ANTENNA-WIFI-C**



**ANTENNA-WIFI-A**