

Dbii Networks F20-PRO is an 802.11b/g 2.4GHz MiniPCI radio with robust surge protection capabilities built into it. It employs our patent pending architecture that integrates the protection for the Radio Frequency (RF) antenna port. Power over Ethernet (POE) port can also be protected with the SafeSurge add-on. Its 500mW RF output power and best in class receive sensitivity and gain are designed with long distance outdoor wireless networks in mind. The card has a built-in Heatsink that makes it optimal for high temperature environments. Its improved co-channel interference will also provide highest level of performance in noisy networks. The card is FCC & CE approved.

RF Port "Lightning" Protection (Built-in)

ESD Handling	Over 14kV*
Surge Handling	8/20uS (10kA)*

*The miniPCI card should be properly grounded with the supplied cable to achieve this level of protection.

Transmitter Characteristics (Tx)

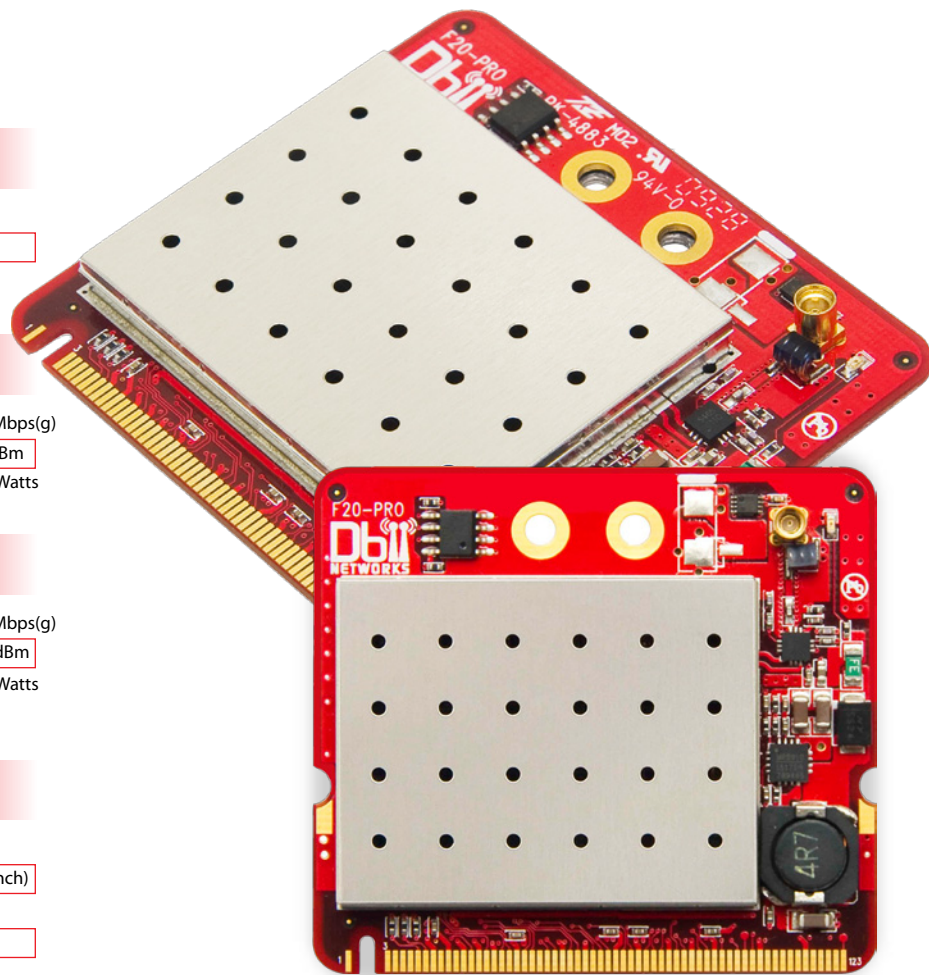
Data Rate	1Mbps(b)	6Mbps(g)	36Mbps(g)	48Mbps(g)	54 Mbps(g)
RF Output Power	27 dBm	27 dBm	26 dBm	24 dBm	23dBm
DC Power consumption	4.3 Watts	4.3 Watts	3.4 Watts	3.3 Watts	3.0 Watts

Receiver Characteristics (Rx)

Data Rate	1Mbps(b)	6Mbps(g)	36Mbps(g)	48Mbps(g)	54 Mbps(g)
RF Output Power	-97 dBm	-94 dBm	-83 dBm	-77 dBm	-74dBm
DC Power consumption	1.1 Watts	1.1 Watts	1.1 Watts	1.1 Watts	1.1 Watts

Miscellaneous

RF connector	Single MMCX Plug
Dimensions	6 cm X 5.4 cm x 0.73 cm (2.1 inch X 3.0 inch)
Weight	21 grams (0.75 ounces)
Operational Temperature	-40C to +80C
Storage Temperature	-40C to +80C
Humidity	0% to 95% (non-condensing)
MAC chipset Atheros	AR5414 with Turbo Support
Channel width support	5MHz, 10MHz, 20MHz, 40MHz
Data Rates	1/2/5/11 (11b) 6/9/12/24/36/48/54 Mbps (11g)
Included Accessories	15cm ground wire, 1 screw
Warranty	One Year Limited Warranty



Key Features

- Integrated ESD (14kV) + Lightning Surge Protection (10kA)
- Industrial best sensitivity (-97 dBm @ 6Mbps | -74 dBm @ 54Mbps)
- RF output power up to 27 dBm
- Industry best high rejection filter to improve signal to noise ratio
- Custom heat sink design provides reliable performance