F50-PRO Datasheet



Dbii Networks F50-PRO is an 802.11a 4.9GHz/5GHz 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. In the USA the card is also approved for high power operation in the 4.9GHz Public safety band (FCC IDs: VKV-F50, VKV-F49)

	ESD Handling	Over 14kV	*							
	Surge Handling	8/20uS (10)kA)*							
	*The miniPCI card should be properly grounded with the supplied cable to achieve this level of protection.									
Transmitter Characteristics (Tx)										
	Data Rate	6 Mbps	36 Mbps	48 Mbps	54 Mbps					
	RF Output Power	27 dBm	26 dBm	24 dBm	22 dBm					

5.0 Watts

4.4 Watts

4.1 Watts

RF Port "Lightning" Protection (Built-in)

Receiver Characteristics (Rx)

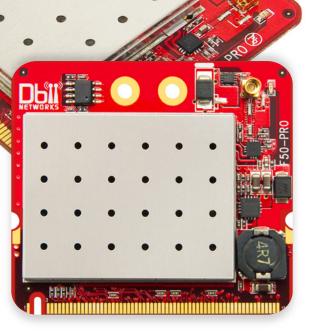
5.3 Watts

Data Rate	6 Mbps	36 Mbps	48 Mbps	54 Mbps
RF Output Power	-94 dBm	-83 dBm	-77 dBm	-74 dBm
DC Power consumption	1.1 Watts	1.1 Watts	1.1 Watts	1.1 Watts

Miscellaneous

DC Power consumption

RF connector	Single MMCX Plug
Dimensions	6 cm X 7.7 cm (2.1 inch X 3.0 inch)
Weight	26 grams (0.9 ounces)
Operational Temperature	-40C to +80C
Storage Temerature	-40C to +80C
Humidity	0% to 95% (non-condensing)
MAC chipset Atheros	AR5414 (6th Generation)
OS Compatibility	Mikrotik, Peplink, Ikarus, Wilibox
SBC Compatibility PC Engines	WRAP, Routerboard, Gateworks
Included Accessories	15cm ground wire, 1 screw
Warranty	One Year Limited Warranty



Key Features

- Integrated ESD (14kV) + Lightning Surge Protection (10kA)
- Industrial best sensitivity (-94 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

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