

## About Pharad

Founded in 2003 and located in Hanover, Maryland, Pharad is a customer focused company carrying out innovative research, development, and manufacturing in the areas of highly efficient, electrically small antennas and RF-over-Fiber technologies. Pharad operates an ISO9001: 2008 manufacturing facility that delivers high quality production volume products to a wide range of government and commercial customers. In response to increased customer demand, Pharad formed the **octane**® division in 2007 and we now sell our products through the **octane**® brand.

Pharad, LLC  
1340 Charwood Road, Suite L  
Hanover, Maryland 21076

Phone: (410) 590-3333  
Fax: (410) 590-3555  
Email: [info@pharad.com](mailto:info@pharad.com)

[www.pharad.com](http://www.pharad.com)  
[www.octanewireless.com](http://www.octanewireless.com)

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# Wearable Antennas



*Featuring*  
**Flexenna® Technology**

Pharad has developed and manufactures the most comprehensive wearable antenna product offering in the industry. The unique form factor of these antennas is made possible by incorporating Pharad's patented Flexenna® flexible antenna technology. These wearable antennas are the ideal antenna solution for users requiring integrated textile body worn radiators, including first responders, soldiers, marines, and security/intelligence personnel operating covertly. Our body wearable antennas are fabricated using state-of-the-art, thin flexible materials that conform to the exterior of the body and outer garments. The lightweight, unobtrusive design and flush mounting provide the most user-friendly alternative to whip or stub antennas. Communications link performance is maintained without hindering the user's vision or mobility. We offer various mounting configurations and spatially diverse antenna systems that further enhance link performance. Standard connector options allow these antennas to easily connect to most radios.

## Wearable Antenna Products

Frequency	Application	Base Model Number*†	Standard Connector	Available Carriers‡
2 - 30 MHz	HF	BW-2-30	BNC	M, V
30 - 512 MHz	IOTV VHF Tactical Comms	BW-30-512-I	TNC	C, M, V
30 - 6000 MHz	EW, ISR, Communications	BW-30-512	TNC	C, M, V
30 - 6000 MHz	EW, ISR, Communications	BW-30-512-EG	N-Type	M
200 - 260 MHz	230 MHz Applications	BW-200-260	SMA	C, V
225 - 2500 MHz	JTRS	BW-225-2500	SMA	V
225 - 6000 MHz	IOTV EW, ISR, Communications	BW-225-6000-I	SMA	C, M, V
330 - 380 MHz	UHF Communications	BW-330-380	SMA	C, M, V
350 - 450 MHz	UHF Communications	BW-350-450	SMA	C, M, V
380 - 430 MHz	TETRA	BW-380-430	SMA	C, M, V
420 - 450 MHz	EPLRS	BW-420-450	SMA	C, M, V
470 - 480 MHz	Application Specific	BW-470-480	SMA	C, M, V
700 - 3000 MHz	LTE	BW-700-3000	SMA	V
800 - 900 MHz	800 MHz Voice	BW-800-900	SMA	C, M, V
800/900/1800/1900 MHz	Quad Band GSM/Cellular	BW-800/900/1800/1900	SMA	C, M, V
900 - 1000 MHz	900 MHz ISM	BW-900-1000	SMA	C, M, V
900 - 6000 MHz	Multiband Applications	BW-900-6000	SMA	C, M, V
1228/1575 MHz	GPS L1/L2	BW-1228/1575	SMA	C, M, V
1350 - 1390 MHz	L-band Communications	BW-1350-1390	SMA	C, M, V
1575 MHz	GPS L1-Active	BW-1575-A	SMA, TNC	M
1616 - 1627 MHz	Iridium	BW-1616-1627	SMA	C, M, V
2400 - 2500 MHz	WLAN/PRR	BW-2400-2500	SMA	C, M, V
2400 - 2500 MHz	WLAN Enhanced Gain	BW-2400-2500-EG	SMA	C, M, V
2400 - 6000 MHz	WLAN Directive	BW-2400-6000	SMA	C, M, V
3000 - 10000 MHz	UWB	BW-3000-10000	SMA	C, M, V
3000 - 10000 MHz	UWB Enhanced Gain	BW-3000-10000-EG	SMA	C, M, V
5200 - 5900 MHz	C-band Communications	BW-5200-5900	SMA	C, M, V

\* Dual radiator diversity configurations (-D) available for most models

† Other connectors and custom configurations also available.

‡ C = Covert Vest Antenna/Radio Harness  
M = MOLLE Compatible Antenna Pouch  
V = Tactical Vest Antenna/Radio Carrier

## Integration Examples



## Available Wearable Antenna/Radio Carriers

MOLLE Compatible Pouches	Covert Harnesses	Tactical Vests

These antennas are intended for occupational use only and have been designed to comply with the IEEE (FCC) exposure limits for occupational/controlled RF exposure environments.

Model: BW-2400-2500