Intel Takes Tech to New Heights at X Games Aspen 2016

Jan. 28, 2016 – At the X Games Aspen 2016, Intel is teaming up with ESPN* to give athletes and fans unprecedented insights into the amazing athletic feats accomplished during competition.

Thanks to the tiny, low-power Intel® Curie™ module, athletes and fans will instantly know how high athletes fly off jumps, how fast they move, the force on landing, and how many degrees they rotate in the air.

These new measurements will be captured during the Men's Snowboard Slopestyle and Men's Snowboard Big Air competitions. The data will also be shared with viewers live during the television broadcast on ESPN and ABC*.

Showcasing the Power Behind the Athleticism

Most wearable devices are only able to collect data for analyzing at a later time. With the Intel Curie module, athletes and coaches will be able to get feedback in real time, enabling them to take quick action to improve their performance. Combining this data with video replay, nutritional, sleep and other data, will enable athletes to create a more complete picture of how to improve performance.

For fans looking for new insights into their favorite sports and athletes, this additional information can create a new appreciation for the level at which these athletes compete. Broadcasters will also bring the data to life by adding context to their analysis of the athletes' performance, helping to bring fans closer to the sport.

Inside the Technology Behind the Data

The Intel Curie module's unique pattern matching technology and onboard processing capabilities can capture motion-based information such as acceleration, spin, altitude and GPS data in real time. It also calculates statistics such as speed, height, rotation and more.

The Intel Curie module is embedded into a sensor puck that also includes GPS, a compass and barometer. The system is approximately the size and weight of a tape roll and is mounted between the rider's feet in the middle of the snowboard.

The Intel Curie module includes:
- A low-power, 32-bit Intel® Quark™ microcontroller
- 384kB flash memory, 80kB SRAM

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- o A low-power, integrated DSP Sensor Hub with a proprietary pattern matching accelerator
- o Bluetooth Low Energy
- o 6-axis combo sensor with accelerometer and gyroscope
- o Battery charging circuitry (PMIC)

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