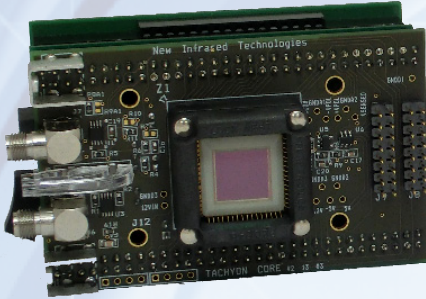


TACHYON CORE MODULE

for TACHYON 6400 FPA



Plug & play uncooled MWIR imaging module (80x80) with frame rates up to 2000 Hz and USB 2.0 interface



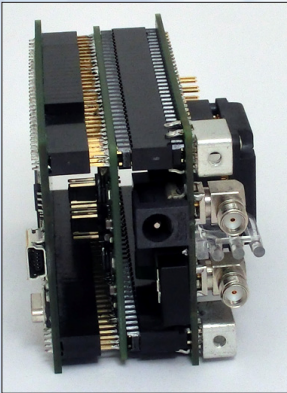
TACHYON CORE electronic module (OEM)



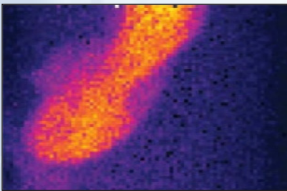
TACHYON CORE electronic module with housing

Technical characteristics

- Electronic module system with control and communications interface for TACHYON 6400 FPA (2nd gen. FPA with ROIC, 80x80)
- FPA included with the module
- Two CORE versions available:
 - **TACHYON 6400 CORE-S**: 500 Hz
 - **TACHYON 6400 CORE-HS**: 2000 Hz
- Integration time: selectable via software (100 – 1000 us)
- Biasing voltage: selectable (0V to 4V, with current measurement)
- Maximum frame rate (@ minimum integration time):
 - 500 Hz (CORE-S version)
 - 2000 Hz (CORE-HS version)
- Slower speeds are possible using longer integration times
- Communication interface: USB 2.0, high-speed (up to 480 Mbps)
- Data transmission: raw data, 10 bits
- Acquisition trigger (TRIGGER IN): SMA connector, 2 modes: start/stop, burst
- Output trigger (TRIGGER OUT): SMA connector, 1 pulse per image
- Power: external power, 12VDC, 500 mA (6 watts)
- Dimensions of the electronic module (in mm): 55 (L) x 90 (W) x 60 (H)
- Metal housing available, with M35x1 optics interface, side connectors & fan (housing dimensions, in mm: 80 (L) x 90 (W) x 80 (H))
- SDK library for C available
- Optics available (M35x1 interface)
- Modifications of the product: available upon request
- Applications: industrial (gas detection, machine vision, laser monitoring,) & defense (muzzle flash detection, Automatic Protection Systems, PICS)



The **TACHYON CORE** electronic module (OEM) includes all the connections required for control, communications, power and trigger



Multiple applications include industrial and defense uses (image: combustion monitoring)

For more information, visit www.the-new-tachyon-series.com or contact us at info@niteurope.com

Follow the latest product news in our Twitter channel: [@niteurope](https://twitter.com/niteurope)

New Infrared Technologies makes uncooled IR imaging fast and affordable!