

# 7221 Products

## STANAG 7221 Compliant Network Solutions



### Overview

Edgewater's family of STANAG 7221 compliant Network Interface Cards are designed to provide rapid and affordable data capacity increases of up to 100Mbps on STANAG 3838 and MIL-STD-1553B data buses.

Functioning as a separate, independent data network, the additional capacity operates in parallel with and independently of the existing STANAG 3838/MIL-STD-1553B signaling.

Edgewater's STANAG 7221 implementations do not rely on the legacy STANAG 3838/MIL-STD-1553B Bus Controller and require no changes to the existing hardware or software infrastructure. Edgewater's 7221 products are the affordable, rapid and incremental solution to modern applications requiring increased data capacity.

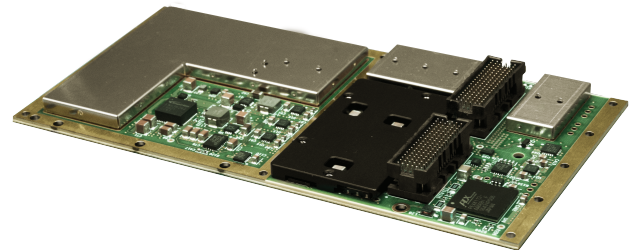
### EHS-PMC5602 / EHS-PMC6602

- PCI Mezzanine Card (PMC)
- STANAG 7221 compliant
- PCI host interface
- **EHS-PMC5602** (Bus Controller / Remote Terminal)
- **EHS-PMC6602** (Remote Terminal Only)



### EHS-XMC5602 / EHS-XMC6602

- Switched Mezzanine Card (XMC)
- STANAG 7221 compliant
- PCIe host interface
- **EHS-XMC5602** (Bus Controller / Remote Terminal)
- **EHS-XMC6602** (Remote Terminal Only)



### Features

- High-performance STANAG 7221 compliant interface
- Operates on STANAG 3838, MIL-STD-1553B and MACAIR compatible data buses
- STANAG 7221 Bus Controller or Remote Terminal Configuration

### Tools and Resources

- **EHS-BTM** Bus Transaction Monitor
- **EHS-BME** Bus Modeling Environment
- **EHS-SDK** Software Development Kit
- **EHS-TRN5600** Training Course
- **EHS-7221-EVK** Lab Evaluation Kit

## ORDERING INFORMATION

Email: [sales@edgewater.ca](mailto:sales@edgewater.ca)  
Phone: +1 613 271 1101 x3074



## Applications

- Transportation of high-speed data such as video, imagery, enhanced vision systems and advanced data communications
- Load reduction on existing STANAG 3838/MIL-STD-1553B data buses
- Integration into Mission Computers, Stores Management Systems, and displays to prepare existing network infrastructure for future development
- Suitable for ground, airborne, surface and sub-surface platforms integrated with STANAG 3838/MIL-STD-1553B data buses
- Appropriate for performing cybersecurity upgrades

## Engineering Consulting

Edgewater's highly skilled engineering staff has extensive experience meeting the demands of major military organizations such as the United States Air Force and the Canadian Department of National Defence. To discuss the implementation of STANAG 7221 in a custom form factor or application, please contact us.

### Edgewater Computer Systems, Inc.

50 Hines Road, Suite 200  
Ottawa, ON K2K 2M5  
Canada  
Telephone: +1 613 271 1101 x3074  
Email: [info@edgewater.ca](mailto:info@edgewater.ca)

## STANAG 7221

Promulgated by the NATO Standardization Organization in May 2015, STANAG 7221 enables the rapid and incremental integration of robust and deterministic data-centric capabilities demanded by today's military operators while delivering those capabilities at a fraction of the cost compared with conventional approaches.

STANAG 7221 defines a broadband, real-time data bus standard for transmitting waveforms along with a series of appendices describing various physical media interfaces. Edgewater's 7221 family of network interface devices support STANAG 7221 Appendix 1, which defines interoperability on a STANAG 3838/MIL-STD-1553B data bus to deliver 100 times more data capacity while operating concurrently with existing STANAG 3838/MIL-STD-1553B signaling.



## ORDERING INFORMATION

Email: [sales@edgewater.ca](mailto:sales@edgewater.ca)  
Phone: +1 613 271 1101 x3074