EHS-7221-EVK

STANAG 7221 Lab Evaluation Kit

EDGEWATER
COMPUTER SYSTEMS, INC

Overview

The EHS-7221-EVK Lab Evaluation Kit is a complete test package for evaluating STANAG 7221 data bus traffic in the lab environment. Designed to provide familiarization of the standard early in the development process, the EHS-7221-EVK offers developers the ability to modify and reconfigure bus components to test the performance of STANAG 7221 on a representative data bus.

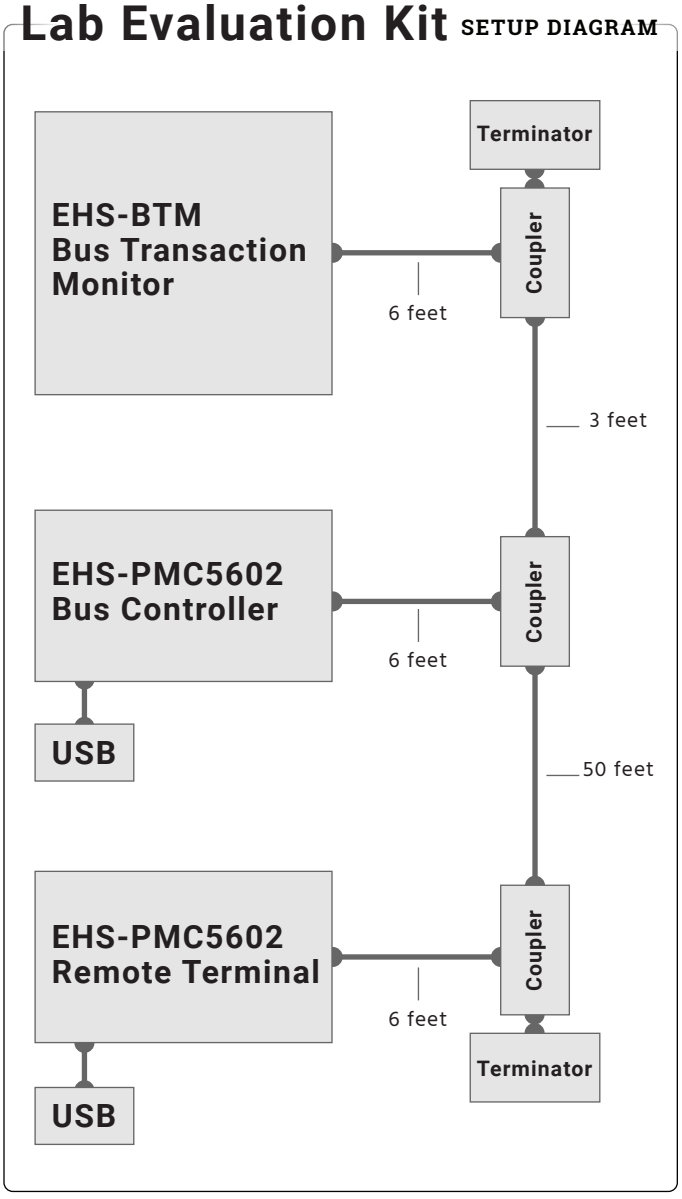
The EHS-7221-EVK contains the necessary components to simulate a functioning STANAG 7221 compliant data bus in the lab environment including all required cabling, software and user documentation.

Applications

The EHS-7221-EVK Lab Evaluation Kit is a useful test environment for STANAG 7221 development in the following areas:

- Military and Commercial Avionics Systems
- Airborn Sensor Systems
- Electro Optical / Infrared Imaging
- High Definition Video Transport
- Communication Systems
- Cybersecurity
- MIL-STD-1553B Data-Centric Capacity Upgrades
- STANAG 7221 Data Bus Validation

Lab Evaluation Kit SETUP DIAGRAM



ORDERING INFORMATION

Part Number: EHS-7221-EVK
Email: sales@edgewater.ca
Phone: +1 613 271-1101 x3074
Available: Now

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June 2018
Revision 1.1

Components

The EHS-7221-EVK Lab Evaluation Kit includes:

VxWorks® PC Chassis (x2), each containing
- EHS-PMC5602-L Network Interface Card
- Power Cable
- VxWorks 6.9 Runtime License

EHS-BTM STANAG 7221 Bus Transaction Monitor Test System
- EHS-BTM Bus Transaction Monitor
- EHS-BTM Analyzer Software with Windows® User Interface

EHS-SDK-VxWorks Software Development Kit
- XiCDT and XiCDi Configuration Data Tools
- Modem Test Utility

EHS-7221-EVK Documentation
- Installation and Setup Manual
- API Reference Guide
- Software Development Kit User Manual
- EHS-PMC5602 Software User Manual
- EHS-BTM Analyzer User Manual

6 foot PC to MIL-STD-1553B Bus Breakout Cables (x3)

Single-Port Breakout Boxes with USB connector for Bus Controller / Remote Terminal (x2)

50 foot MIL-STD-1553B Cable

3 foot MIL-STD-1553B Cable

North Hills Two-Port Couplers (x3)

MIL-STD-1553B Bus Terminators (x2)

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.

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. For product support or to discuss the implementation of STANAG 7221 in a custom application, please contact us.

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