MILNET AWA

DATA BUS FOR NAVAL COMBAT SYSTEMS



DEFENCE SYSTEMS

MH Spec Data Bus

Communications
Command & Control

Avionics EW Magnetic Kange Radar

RARRA Sonobuous

Air Turtle Control
Networks
Turnkey Capability
Soften Design, Integration and
Manufacture

Logistic Support
Services Quality Assurance Level AS
Cleaned Facility Status

TRANSMISSION SYSTEMS
Products Senal Coparity Analogue & Digital Radice
Option Plans Senals
Help Capacity Microsover Radio Systems
Help Capacity Notice Histo Senals

Multiplexers
Optical Pibre Network
Steres Design Manufacture

IRWAYS SYSTEMS

Defence and Transmission Disinion NORTH RYDE TECHNOLOGY GROUP Amalgamatics Wireless (Australiasa) Limited Procoporated in New South Males

Crr. Talavera & Lane Cose Roady, North Ryde, NSW PCB des St. North Ryde 21th NSW Australia Policylane; 620-887, 7111 Int. 1910 (2007) 711 Int. 1910 (2007) 711 Int. 1910 (2007) 711 Int. A. 2007 (2007) 711 (2016) for property



INTRODUCTION

Data Bus technology has now evolved as an integral part of distributed processing and control systems in modern Naval combatants

The 1st Generation of Data Russes used in a Shipborne environment were developed to transport information such as low-speed synchro woice-intercom sonaraudio processed data, control and status. The total capacity of these 1st Generation Busses can range up to 30 Mbps

The 2nd Generation Data Busses now emerging are designed to provide all the features of 1st Generation, with the additional capability of transporting wide bandwidth digitized raw sonar, radar and video information. The total capacity of these 2nd Generation Busses can be in excess of 300 Mbps depending upon applications.

Building on the experience of AWA's 1st Generation commercial Data Rus product AWANET, AWA have developed their 2nd Generation product MILNET, targeted specifically towards the Naval environment

MILNET is a general purpose, time division multiplex Data Bus, which employs state-ofthe art fibre ontic technology providing interference immunity, security and long-term capacity growth. Its high reliability triple redundant configuration and flexible Bus design, offers a modular, cost effective growth path from 30 Mhos to 480 Mhos to meet immediate and long-term needs

MAIN FEATURES MENET servides the following capabilities to ship

 Hierarchical network design provides correspications compatibility flexibility and standard duster networks such as V24. Ethernet

- Handle time continuous and hands data. Time ● MUNET can be configured as a single Data Bus or
- monanci sunniability and transport capacity Cach Bus may be configured as a single or dust
 - Confusingle Bus capacity is expanded in
 - m-cabling or major equipment changes ◆Communications between Data Bus nodes is in serial form over certical fibrecable. Short di
- communication can alternatively be in passife of performance, reliability and con-

NETWORK STRUCTURE

BACKBONE NETWORK estating primary and vegetary rings, connecting

NETWORK CONTROL UNIT (NCU)

control functions. Each Data Sus employs at least

BUS INTERPACE CARDS (RICO) Flug-in to a CIU or NCU to provide physical, electrical and protocol interfacing between the





MILNET

NAVAL COMBAT SYSTEMS



