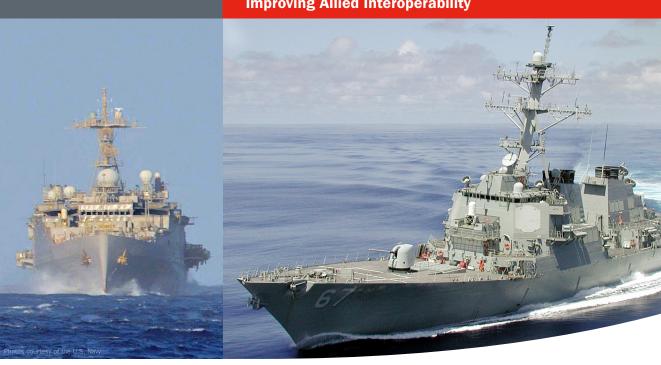


# **Improving Allied Interoperability**



# **GA-205 TIME DIVISION MULTIPLEXER**

The DRS 12-channel GA-205 Time Division Multiplexer (TDM) provides full-duplex and half-duplex transmission and reception of data at selectable user port rates of 75 x 2" up to 9,600 bps.

The aggregate data rates are selectable from 150 to 38,400 bps with an aggregate format that exceeds 93% efficiency. Various transmit aggregate clocking options are provided for operation with data modems or other transmission media.

The system accommodates user data that do not share common timing sources and provides for isochronous, bit stuff, synchronous and asynchronous operation. All digital data interfaces are operator configurable for RS-232S, RS-423A, RS-422A or mixed RS-422A/RS-423A.

Control of the GA-205 is through a RS-232 port opening operating at 9,600 bps asynchronous. Windows® -based remote control software is supplied.



12-Channel GA-205 Time Division Multiplexer

#### **HIGHLIGHTS**

- All firmware in flash memory
- RS-232C remote control port, RS-232C, RS-423A, RS-422/RS-423 user port interfaces
- User data rates up to 9,600 bps
- · Aggregate data rates up to 38,400 bps
- Built-In Test (BIT)
- U.S. Navy HSFB format
- · Upgrades in field with PC
- · Loopback test modes
- · Data sense programmable for positive or negative

| Number of user ports | Up to 12 full-duplex circuits |
|----------------------|-------------------------------|
|                      | utilizing time division       |
|                      | multiplexing                  |
|                      |                               |
| ASYNCHRONOUS         |                               |
| Data rates           | 50, 75, 100, 150, 300,        |
|                      | 600, 1,200, 2,400, 4,800,     |
|                      | 7,200 or 9,600 bps            |
| Data bits            | Programmable for              |
|                      | 5, 6, 7 or 8                  |

# **SYNCHRONOUS**

Stop bits

| Data rates | 50, 75, 100, 150, 300,   |
|------------|--------------------------|
|            | 600, 1,200, 4,800, 7,200 |
|            | or 9,600 bps             |

Programmable for 1.0, 1.42, 1.5 or 2.0

# **ISOCHRONOUS**

| Data rates | <75, <150, <300, |
|------------|------------------|
|            | <600, <1,200     |
|            |                  |

# **BIT-STUFFED**

| Data rates  | 50, 75, 100, 150, 300,    |
|-------------|---------------------------|
|             | 600, 1,200, 2,400, 4,800, |
|             | 7,200 or 9,600 bps        |
| Clock sense | Programmable for normal   |
|             | or inverted               |
|             |                           |

## AGGREGATE FEATURES

| Data rates            | 150, 300, 600, 1,200,       |
|-----------------------|-----------------------------|
|                       | 2,400, 4,800, 7,200 or      |
|                       | 9,600, 19,200, 38,400 bps   |
| Transmit clock source | Programmable for internal   |
|                       | timebase, transmit clock or |
|                       | receive clock               |

| Internal time base       | Programmable for internal  |
|--------------------------|----------------------------|
|                          | oscillator (10 ppm) or     |
|                          | station clock (1 or 5 MHz) |
| Sychronization character | Programmable for frame     |
|                          | 1-9C16 or frame 2-9D16     |

### **BUILT-IN-TEST**

Automatic power-on confidence test when power applied or upon operator-initiation

## LOOPBACK

| Aggregate | Aggregate transmit looped internally back toward |
|-----------|--|
|           | aggregate receive                                |
| Port      | Port transmit looped                             |
|           | externally back toward                           |
|           | port receive                                     |
|           | ·  |

| SWAP               |                           |
|--------------------|---------------------------|
| Height             | One unit 1.73 inches      |
|                    | (4.4 cm)                  |
| Width              | 19-inch rack slide        |
|                    | mountable enclosure       |
| Depth              | 17 inches (43.2 cm)       |
| Power requirements | 85/264 VAC, 47 to 440 Hz, |
|                    | 30 W maximum              |

#### RELIABILITY

MTBF @ 25% Naval sheltered 12,000 hrs, ground fixed 20,000 hrs per MIL-HDBK-217F, Notice 1

## **ELECTROMAGNETIC COMPATIBILITY**

Per MIL-STD-461, Part 4, Class A3 and Part 5, Class A4

## **ENVIRONMENTAL**

| Temperature |                          |
|-------------|--------------------------|
| Storage     | -4°F to +140°F           |
|             | (-20°C to +60°C)         |
| Operating   | +32°F to +122°F          |
|             | (0°C to +50°C)           |
| Humidity    | 90% at +122°F (+50°C)    |
|             | non-condensing           |
| Vibration   | MIL-STD-165-1, Type 1    |
| Shock       | 40g 6-9 ms half sine per |
|             | MIL-STD-810E method      |
|             | 516.4 procedure 1        |
|             |                          |



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