

**MD-1026(P)/G
Digital Data Group Modem**

NSN: 5820-01-145-4945

Reference: TM 11-5805-705-12

General Information

The MD-1026(P)/G is a part of the DGM family. It has three module types that perform three different functions. These functions convert balanced NRZ group signals and timing to conditioned diphase, dipulse, or bipolar for transmission on unbalanced coaxial. The GM will contain up to four GM modules. The GM converts balanced NRZ group signals from sheltered DGM functions into conditioned diphase, conditioned dipulse, and bipolar signals. Conditioned diphase signals are for operation with TRI-TAC transmission equipments. Conditioned dipulse signals are for interoperation with Multiplexer TD-754 and the Army Tactical Communications Systems (ATACS). Bipolar signals are for interoperation with Digital Combiner Asynchronous TD-976 and the ATACS. The GM provides secure and nonsecure orderwire operation for telemetry, data, and voice.

Technical Characteristics

Number of Groups	Max 6
Bit Rates:	
Conditioned Diphase	128, 256, 512, 1,024, 15.36, 2,048, 4,096 kb/s 72, 144, 288, 576 1)152, 2,304, 4,608 kb/s
Dipulse	288, 576, 1,152, 2,304 kb/s
Bipolar	1,536.2 kb/s
Equipment Side Interface:	
Signals	NRZ data plus square wave timing
Cable	RG-108, 30.48 m (100 ft)
Cable Side Interface	
Cable	CX-11230 or CX-4245/G coax
Maximum Distance	Conditioned diphase, 3.2 km (2 mi) Dipulse, 1.6 km (1 mi) Bipolar, 0.8 km (.5 mi)
Orderwires (Per Group):	
Conditioned Diphase	2 kb/s and 16, 3.2 km (2.0 mi) or 1 analog 1.6 km (1.0 mi)

Technical Characteristics (Cont.)

Dipulse	1 analog, 0.8 km (.5 mi)
Bipolar	1 analog, 0.8 km (.5 mi)
Input Power Voltage	115 V AC \pm 10%, 47.5 to 440 Hz
Power Consumption	90 W
Size	21.6 cm high by 30.5 cm deep by 43.8 cm wide (8.5 in by 12 in by 17.25 in)
Weight	16 kg (35.2 lb)

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