SATELLITE COMMUNICATION SYSTEM TYPE

TSAT 2100



GENERAL CHARACTERISTICS

The ultra small bi-directional satellite communication system TSAT 2100 is designed specifically for low data rate communication in the Ku-band.

Operating at data rates between 2 400 - 9 600 bps (also up to 16 800 bps) TSAT 2100 provides a highly reliable and cost effective solution to data communication for a wide array of applications.

The network runs on such a narrow bandwidth and low output power that the cost of space segment is almost negligible in the overall network expenditure. For example, a 9600 bps TSAT network will utilize only 22KHz of equivalent bandwidth. Such low consumption of satellite transponder capacity makes TSAT 2100 unique in the VSAT market.

Flexible interface and protocol options make the TSAT 2100 network an ideal communications medium for a variety of applications such as :

- Collection and distribution of data in SCADA applications, - Transaction such as POS (Point Of Sales), ATM

(Automatic Teller Machines), betting and lottery,

- Broadcast of data

MAIN FEATURES

- Low Data Rates 2400 9600 (16.800)bps
- Dedicated Hub with full control of the network
- Cost effective rent of narrow space segment
- Small VSAT antenna that reduces manufacturing, shipment and installation cost
- Network Management on a PC



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DIMAT

TECHNICAL SPECIFICATIONS

	Remote	55, 90, 120 cm	
	Hub	120 (180, 240) cm	
Fre	quency		
	Transmit	14.0 -14.25 GHz	
	Receive	12.50 - 12.75 GHz (other under request)	
Mod	dulation and Data rates		
	2-4PSK	2400, 4800 bps	
	OQPSK	9600 bps, 14400 (FEC 3/4), 16800 (FEC 7/8)	
Acc	ess Methods		
	Outbound	TDM	
	Inbound	TDMA, Slotted, Aloha, user access, schemes	
Interface		RS232, RS422, RS485	
	Remote	2 async. DB9 1 sync. DB25, X25 (under request)	
	Hub	Up to 64 async. DB25 1 sync. DB25, X25 (under request)	
Communication protocols		Compatible with IP/ethernet	
	Circuit-switched	Point-point, Multidrop emulation	o, PSTN modem, dial-up
	Packet-switched	X25 SVC, PVC (under	request)
Mo	unting		
	Antenna	Wall or 3 inch pole	
	Main Unit	Indoor unit, Outdoor cabinet, pole mount option	
Wei	ght and dimensions		
	Antenna	55 cm 90 cm 120 cm	5.2 kg 9.4 kg 19.6 kg
	RF-Front End	Ø 105 x 172 mm	2.1 kg
	Main Unit	324 x 257 x 69 mm	2.5 kg
	Power Consumption	20-35 W (enables solar cell operation)	
OPTIONS		Voice Capability Outdoor configuration Multiple inbound links	