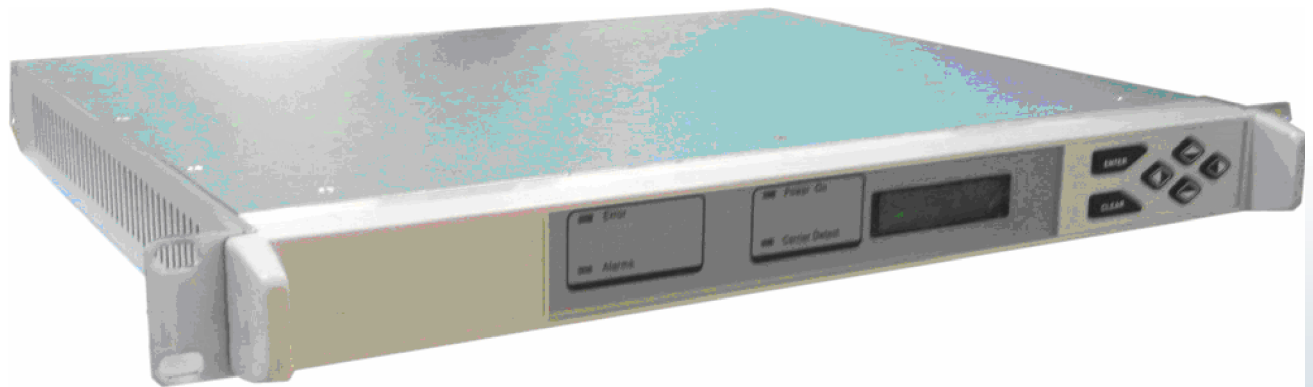


3000B -- Variable Data Rate Satellite/Microwave Receiver



FEATURES:

- § Cost-effective and Customized to Tailor to Customer Exact Requirements
- § Demodulation Type: BPSK/QPSK/OQPSK/8PSK/16QAM/32QAM/64QAM
- § Fast Acquisition, Low Carrier Acquisition Threshold
- § Variable Data Rate: 1.5Kbps ~ 60Mbps, Step 1 bit
- § FEC: Viterbi, Reed-Solomon, Trellis and TPC
- § G.703 Interface; I and Q, CLK Output
- § IESS-308/309/310/314/315 Standard
- § Embedded 16 Tap adaptive equalizer

Appliance:

- § IDR/IBS Satellite Communication Service
- § Microwave Communication
- § Cable Digital TV

Specs:

- § IF Input Frequency:
 - 50MHz ~ 200MHz, 1Hz Step
 - Option: 950MHz ~ 2150MHz, 1Hz Step
- § Input Impedance:
 - 50 Ω
 - Option 70 Ω
- § Input Connector: BNC
- § Input Return Loss: ≥ 20 dB
- § Input Level: -20dBm ~ -60dBm
- § Carrier Acquisition Range: ± 1 KHz ~ ± 32 KHz ± 1 KHz Adjustable
- § Clock Synchronisation Range: 100ppm
- § Data Rate: 1.5Kbps ~ 60Mbps, Step 1 bit
- § FEC :
 - Viterbi, k=7 1/2 3/4 7/8
 - TCM 2/3
 - TPC BPSK/QPSK/OQPSK 1/2, 2/3, 3/4, 21/44, 5/16, 0.493, 0.789, 0.875
8PSK 3/4; 16QAM 3/4
 - RS: (126,112), (194,178), (219,201), (225,205), (220,200), (200,180)
- § Data Interface: G.703, V.35, EIA-422
- § 6 key keyboard; two line, 16 characters LCD displayer

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§ Carrier Acquisition Threshold

Demodulation	Threshold(Eb/N0)
BPSK 1/1	< -0.5dB
QPSK(OQPSK) 1/1	< -0.5dB
8PSK 1/1	< 3.5dB
16QAM 1/1	< 5.0dB
32QAM 1/1	< 7.0dB
64QAM 1/1	< 9.0dB

§ BER Performance

Demodulation/FEC	Rate	1x10 ⁻⁵	1x10 ⁻⁶	1x10 ⁻⁷	1x10 ⁻⁸
BPSK VIT	1/2	5.2	5.8	6.3	6.8
BPSK VIT RS	1/2	3.7	3.9	4.1	4.2
BPSK TPC	2/3	4.1	4.3	4.5	4.7
BPSK TPC	5/16	2.7	2.9	3.0	3.2
BPSK TPC	21/44	3.1	3.3	3.4	3.6
BPSK TPC	0.875	8.0	8.6	9.0	9.5
BPSK TPC	0.789	3.9	4.2	4.4	4.5
BPSK TPC	0.493	3.1	3.3	3.4	3.5
QPSK/OQPSK VIT	1/2	5.2	5.8	6.5	7.0
	3/4	6.2	7.1	7.6	8.0
	7/8	7.3	7.9	8.4	9.0
QPSK/OQPSK VIT RS	1/2	3.5	3.7	3.9	4.1
	3/4	4.6	4.7	4.9	5.0
	7/8	5.7	5.9	6.1	6.3
QPSK/OQPSK TPC	1/2	3.1	3.2	3.4	3.6
	2/3	4.1	4.3	4.5	4.7
	3/4	3.7	3.9	4.2	4.4
	5/16	2.5	2.7	2.9	3.1
	21/44	3.1	3.2	3.4	3.6
	0.875	7.5	8.0	8.5	9.0
	0.789	3.9	4.2	4.3	4.4
	0.493	3.1	3.2	3.4	3.5
8PSK TCM	2/3	5.5	5.7	5.9	6.0
8PSK TCM RS	2/3	7.3	8.2	8.9	9.5
8PSK TPC	3/4	6.2	6.4	6.6	6.8
16QAM VIT RS	3/4	8.6	8.8	9.0	9.1
16QAM VIT RS	7/8	9.5	9.7	9.9	10.1
16QAM TPC	3/4	7.7	8.0	8.2	8.5

§ Monitor and Control Interface:

- Interface: RS-232, 9 pin (Female)
- Baud rate: 9600/19200/38400/57600
- Code: 8N1,7E2 or 7O2
- Control Address:1~9999 programmable, 0 reserved for global Address

§ Size: 4.4(H)* 48.2(W)*38.6(D), 1RU

§ Weight:3.6kg

§ Power: IEC Connector, 110~240, VAC 47~63Hz, 60W

§ Environment: 0°C ~ +50°C