

NetPrecis

Long Range Point-to-Point Links (Up to 250 Km and up to 65 Mbps)

Product Highlights

- Long range (up to 250 km)
- High capacity (up to 65.4 Mbps) thanks to 128 QAM modulation
- Available in different licensed bands from 300 MHz to 2.7 GHz
- Built in cross connect and multiplexer
- Monitored Hot Standby and Hitless Space Diversity
- Wide temperature and environmental ratings
- MTBF of more than 95 years



Key Benefits

- Eliminates running cost of VSAT connections
- Modular future proof architecture
- Highly reliable
- Carrier class performance
- Superior spectral efficiency
- Customer-configurable interfaces
- Low total cost of ownership, quick ROI



The Netronics NetPrecis point-to-point back haul radio provides robust wireless transmission of Internet, voice and data traffic over distances of up to 250 kilometers.

NetPrecis is the flexible, functional answer to the low-medium capacity challenges in today's wireless networks.

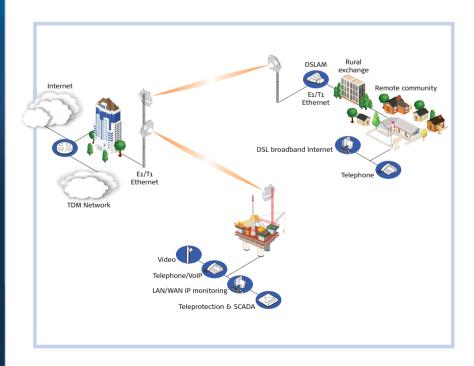
Easy to use and customer-configurable, NetPrecis provides solutions from simple trunk applications to complete complex network designs.

Our design priority is to reduce network operators' costs. In all NetPrecis terminals we engineered high-performance characteristics, and operating features that deliver.

NetPrecis built-in multiplexer and cross-connect eliminate external equipment and minimize the over-the-air requirements, with customer-configurable interface slots integrating all IP, voice and data traffic. Configuration, performance monitoring and diagnostics are easy with the Netronics embedded web-based element management system.

NetPrecis links are engineered to achieve 'five 9s' availability, benefiting from state of the art forward error correction and inherent low latencies, for unrivalled quality of service.

NetPercis hardware is extremely reliable and has a record of zero out-of-the-box failures in 2008. It can be relied upon to perform in the harshest and most remote environments.





Net Throughput



Max., LOS

Variety of channel sizes



Modular future



High gain

Specifications

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D.F.						
RF	BAND	TUNING R			HESIZER STEP SIZE	
Frequencies	300 MHz	330 – 400		6.25		
	400 MHz	394 - 460		5.0 k		
	400 MHz	400 - 470		6.25		
	600 MHz	620 - 715		12.5		
	800 MHz	805 - 890		12.5		
	900 MHz	850 - 960		12.5		
	1400 MHz	1350 - 15		12.5		
	1800 MHz 2000 MHz	1700 - 21		62.5		
	2500 MHz	1900 - 23		62.5		
na . I . I . I'	2500 MHz 2300 - 2700 MHz 62.5 kHz Software configurable: QPSK/16/32/64/128 QAM					
Modulation Types	Short term ± 1 ppm (environmental effects and power supply variations)					
Frequency Stability						
Antenna Connection	Long term ± 2 ppm (aging of crystal oscillators = over 5 years) N-type female 50 ohm					
Antenna Connection	N-type remaie 50 oniii					
Transmitter Power Output	300 - 1800 MHz	2000 - 2500 MHz				
QPSK	+21 to +35 dBm		+20 to +34 dBm			
16 QAM	+17 to +31 dBm		+17 to +31 dBm			
32 QAM	+16 to +30 dBm		+16 to +30 dBm			
64 QAM	+15 to +29 dBm		+15 to +29 dBm			
· .		+15 to +29 dBm		+15 to +29 dBm		
128 QAM	+15 to +29 dbiii					
Receiver						
Maximum Input Level	-20 dBm					
Dynamic Range	58 to 87 dB at 10-6 BER					
C/I Ratio					better than 16 dB	
. = -			16 QAM		better than 20 dB	
			32 QAM		better than 23 dB	
			64 QAM		better than 27 dB	
		-				
			128 QAM		better than 30 dB	
	*				better than -5 dB	
	Second adjacent channel				better than -30 dB	
Duplexer (bandpass)	TX / RX Split	Frequency Bands				
500 kHz	5 MHz		300, 400 MHz			
2.0 MHz	9.45 MHz		300, 400 MHz			
3.5 MHz	20 MHz		300, 400 MHz			
7.0 MHz	45 MHz		600 MHz			
7.0 11.12			800, 900 MHz			
	48 MHz		1400 MHz			
1 (0 11)	-		1800 MHz			
14.0 MHz	47.5 MHz					
	91 MHz		2000 MHz			
	74 MHz 2500 MHz					
Power Supply						
Input Range	115/230 VAC, 50/60 Hz					
input Kange	±12 VDC (10.5 - 18 VDC), ±24 VDC (20.5 - 30 VDC), ±48 VDC (40 - 60 VDC)					
	+12 VDC (10.5 - 18 VDC), 124 VDC (20.5 - 30 VDC), 148 VDC (40 - 00 VDC)					
Dower Consumption	53 – 180 W input power (dependent on interface cards fitted and transmitter					
Power Consumption	output power level)					
Low Power Option (12 VDC)	41 - 53 W input power (dependent on interface cards fitted and transmitter					
Low Fower Option (12 VDC)	output power level)					
lut sufferen	1 - 1 - 2 - 3 - 3 - 7					
Interfaces						
Ethernet	Integrated 4-port 10/100Base-T switch with port-based rate limiting,					
F1 / T1	VLAN tagging and QoS Support					
E1 / T1	Quad 120 ohm G.703/G.704					
Data	Quad asynchronous V.24					
	Single synchronous X.21/V.35/RS-449/RS-530					
Analogue	Dual 2-wire FXS/FXO (POTS); Quad 4-wire E&M					
Auxiliary Interfaces						
Alarms	4 external alarm outputs, 2 external alarm inputs					
Configuration	Embedded web se			iputs		
				1/2/		
Management	Ethernet interfac		VISOR and SINIVIP,	V.24	setup port	
RSSI	Front panel test point					
Environmental						
Operating	-10° C to +50° C (+14° F to +122° F)					
Storage	-20° C to +70° C (-4° F to +158° F)					
Humidity	Maximum 95 % no	-				
			9			
Mechanical						
Rack Mount	19" 2U high (internal duplexer)					
Weight	10 kg (23 lbs) typ	ical				
Protected Options						
Protected Options	4 dD calittan/!	lo loca 1 de	TV rolan/	loss!	uctom gain roduced bur-	
MHSB	4 dB splitter/cable loss, 1 dB TX relay/cable loss(system gain reduced by a maximum of 5 dB)					
HSD	1 dR TX relay/cable loss (25 ms TX switching/hitless RX switching					

1 dB TX relay/cable loss, < 25 ms TX switching/hitless RX switching

EN 302 217

EN 301 489 Parts 1 & 4 EN 60950-1:2006

ETS 300 019 Class 3.2, EN 50385, WEEE



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HSD

Compliance Radio

EMI /EMC

Safety Environmental