

Multi-Frequency 900 & 400 MHz Wireless Modem

For the ultimate solution in design flexibility and cost/size sensitive applications, consider the Pico Series P400 radio platform. Offering software selectable ISM 900 MHz & Licensed 400MHz modes, in a single module, the P400 provides an economical solution with the design flexibility, features, and performance never seen before!

400 MHz Licensed

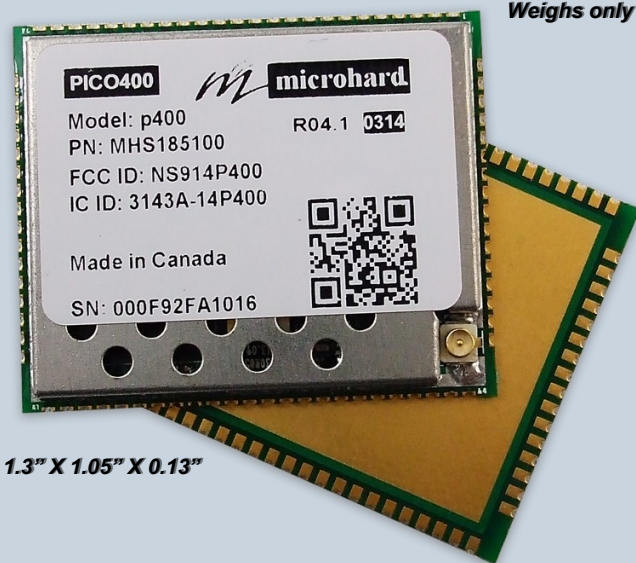
900 MHz ISM

Up to 2 Watts

Extended Temperature

Dual Serial Ports

Excellent Sensitivity



Weights only 5 grams!

1.3" X 1.05" X 0.13"

P400 Features

- Supports up to 345 kbps (@ 900MHz)
- Software Selectable 400 MHz & 900 MHz Bands.
- Quad Filter Stage provides Extreme Noise & Interference Rejection
- Point-to-Point, Point-to-Multipoint, Store & Forward Repeater
- Industrial Temperature (-55°C to +85°C)
- Maximum allowable transit power (Adjustable)
- Low Power consumption in Sleep and Sniff modes (Future)
- 32 bits of CRC, selectable Forward Error Correction with retransmission
- Separate diagnostics port—transparent remote diagnosis and online network control
- Extremely Small Footprint (26.5 x 33 x 3.5mm | 1.3 x 1.05 x 0.15")
- Compatible with some GPS Radio Transceivers
- Microhard compatibility with 920F

Enclosed Option



Pico Series

Specifications

Spreading Method / Modulation Scheme	Frequency Hopping, GMSK, 2GFSK, 4GFSK, QPSK	Frequency 410 to 480 MHz (Licensed Band)				
Forward Error Correction	Hamming, BCH, Golay, Reed-Solomon, Viterbi	Rate (kbps)	Power	Sensitivity (dBm)	Bandwidth (kHz)	Regulatory
Error Detection	32 bits of CRC, ARQ	3.6	2W	-118	6.25	FCC / IC
Encryption	Optional (see –AES option)	4.8	2W	-117	12.5	FCC / IC
Range	60 miles (100 km)	9.6	2W	-115	12.5	FCC / IC
Serial Interface	3.3V CMOS RS232/485 (Selectable)	19.2	2W	-114	25	IC
Serial Baud Rate	300 bps to 230 kbps	Frequency 410 to 480 MHz (Frequency Hopping)				
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer	56	2W**	-113	60	None*
Signals Interface	RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSmode, 4 Digital Inputs/Outputs, 1 Analog Input, 1 Analog Output	115.2	2W**	-109	150	None*
Remote Diagnostics	Battery Voltage, Temperature, RSSI, Packet Statistics	172.8	2W**	-108	180	None*
Rejection	Adjacent Channel @ 400 MHz: 60 dB Alternate Channel @ 400 MHz: 70 dB Adjacent Channel @ 900 MHz: 57 dB Alternate Channel @ 900 MHz: 65 dB	230.4	2W**	-106	230	None*
Core Voltage	OEM 3.3VDC is required for 1W Enclosed 3.6VDC is required for 2W 9-30 VDC	276.4	2W**	-105	230	None*
Power Consumption (3.3V)	Sleep: < 1mA (Future) Idle: 20mA Rx: 45mA to 98mA Tx Peak: 2A	345	2W**	-103	400	None*
Connectors:	OEM Antenna: UFL Data: 80 Pin SMT Enclosed Antenna: RP-SMA Female Bulkhead Data: DB9-F	Frequency 902 to 928 MHz (Frequency Hopping)				
Environmental	-55°C - +85°C 5-95% humidity, non-condensing	19.2	1W	-116	25	FCC / IC
Weight	OEM Approx. 5 grams Enclosed Approx. 120 grams	56	1W	-113	60	FCC / IC
Dimensions	OEM Approx. 1.05" x 1.3" x .13" (26.5mm x 33mm x 3.5mm) Enclosed Approx. 1.80" x 2.60" x 1.0" (46mm x 66mm x 25mm)	115.2	1W	-109	150	FCC / IC
Approvals	FCC Part 15.247 IC RSS210 FCC Part 15.90 IC RSS119 RoHS Compliant	172.8	1W	-108	180	FCC / IC
		230.4	1W	-106	230	FCC / IC
		276.4	1W	-105	230	FCC / IC
		345	1W	-103	400	FCC / IC
		19.2	2W**	-115	25	None*
		56	2W**	-110	60	None*
		115.2	2W**	-109	150	None*
		172.8	2W**	-108	180	None*
		230.4	2W**	-106	230	None*
		276.4	2W**	-105	230	None*
		345	2W**	-103	400	None*
Order Options						
		P400	Base Model (1W 900MHz & 2W 400MHz Licensed Operation).*			
		-AES	128-bit AES Encryption.**			
		-C2S	2W 900MHz, 2W 400MHz Frequency Hopping, 2W 400MHz Licensed & 128-bit AES.**			
		-C1S	1W 900MHz, 1W 400MHz Frequency Hopping, 2W 400MHz Licensed & 128-bit AES.**			
		-ENC	Enclosed Model			
*Standard Modems are Shipped with 400MHz Licensed band operation up to 2W and 900MHz ISM FHSS operation 1W with no AES encryption. No other operation is allowed.						
Operating outside this requires compliance with applicability Radio Regulatory Bodies and Canadian Export Laws. Extra Cost/Activation/Proof of Regulatory Compliance is Required.						
**AES encryption, 2W frequency hopping operation requires Export Permit						

Contact Information

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Multi-Frequency 900 | 869 | 400 MHz Wireless Modem

For the ultimate solution in design flexibility and size sensitive applications, consider the Pico Series P401 radio platform. Offering software selectable ISM 900 MHz, 869 MHz & Licensed 400MHz modes, in a single module, the P401 provides an economical solution with the design flexibility, features, and performance never seen before!

400 MHz Licensed

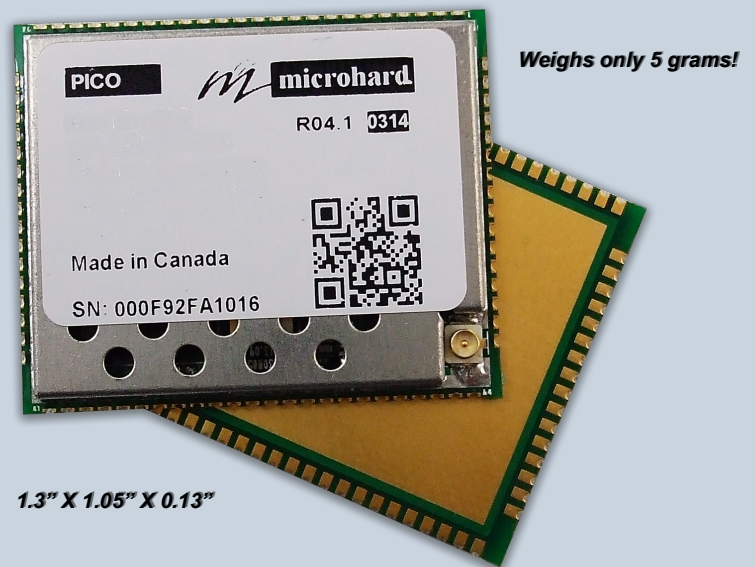
869 MHz

900 MHz ISM

Up to 2 Watts

Extended Temperature

Dual Serial Ports



P401 Features

- Supports up to 345 kbps (@ 900MHz)
- Software Selectable 400 MHz, 869 MHz & 900 MHz Bands.
- Multi Stage, SAW Filters provide Extreme Noise & Interference Rejection
- Point-to-Point, Point-to-Multipoint, Store & Forward Repeater
- Industrial Temperature (-55°C to +85°C)
- Maximum allowable transit power (Adjustable)
- 32 bits of CRC, selectable Forward Error Correction with retransmission
- Separate diagnostics port - remote diagnosis and online network control
- Extremely Small Footprint (26.5 x 33 x 3.5mm | 1.3 x 1.05 x 0.15")
- Compatible with some GPS Radio Transceivers
- Microhard compatibility with 920F

Enclosed Option



Pico Series

Specifications

Spreading Method / Modulation Scheme	Frequency Hopping, GMSK, 2GFSK, 4GFSK, QPSK		Frequency 410 to 480 MHz (Licensed Band)			
Channel Bandwidth	400 MHz 869 MHz 900 MHz	6.25 12.5 25 KHz (Selectable) (10) - 25kHz Channels <u>or</u> (1) 250 KHz Channel Varies by link rate - see table	Rate (kbps)	Power	Sensitivity (dBm)	Bandwidth (kHz)
Forward Error Correction	Hamming, BCH, Golay, Reed-Solomon, Viterbi		3.6	2W	-118	6.25
Error Detection	32 bits of CRC, ARQ		4.8	2W	-117	12.5
Encryption	Optional (see -AES option)		9.6	2W	-115	12.5
Range	60 miles (100 km)		19.2	2W	-114	25
Serial Interface	3.3V CMOS RS232/485 (Selectable)		Frequency 869.5 to 869.75 MHz			
Serial Baud Rate	300 bps to 230 kbps		19.2	500 mW	-116	25
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer		56	500 mW	-113	250
Signals Interface	RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSMODE, 4 Digital Inputs/Outputs, 1 Analog Input, 1 Analog Output		115.2	500 mW	-109	250
Remote Diagnostics	Battery Voltage, Temperature, RSSI, Packet Statistics		172.8	500 mW	-108	250
Rejection	Adjacent Channel @ 400 MHz: 60 dB Alternate Channel @ 400 MHz: 70 dB Adjacent Channel @ 869 MHz: 50 dB Alternate Channel @ 869 MHz: 60 dB Adjacent Channel @ 900 MHz: 57 dB Alternate Channel @ 900 MHz: 65 dB		Frequency 902 to 928 MHz (Frequency Hopping)			
Core Voltage	OEM Enclosed	3.3VDC is required for 1W 3.6VDC is required for 2W 9-30 VDC	19.2	1W	-116	25
Power Consumption (3.3V)	Idle: 20mA Rx: 45mA to 98mA Tx Peak: 2A		56	1W	-113	60
Connectors:	OEM Enclosed	Antenna: UFL Data: 80 Pin SMT Antenna: RP-SMA Female Bulkhead Data: DB9-F	115.2	1W	-109	150
Environmental	-55°C - +85°C 5-95% humidity, non-condensing		172.8	1W	-108	180
Weight	OEM Enclosed	Approx. 5 grams Approx. 120 grams	230.4	1W	-106	230
Dimensions	OEM Enclosed	Approx. 1.05" x 1.3" x .13" (26.5mm x 33mm x 3.5mm) Approx. 1.80" x 2.60" x 1.0" (46mm x 66mm x 25mm)	276.4	1W	-105	230
Approvals	FCC Part 15.247 IC RSS210 FCC Part 15.90 IC RSS119 RoHS Compliant		345	1W	-103	400
			Order Options			
			P401	Multi-Frequency 900MHz, 869 MHz, 400MHz Modem		
			-AES	128-bit AES Encryption.*		
			-ENC	Enclosed Model		
			* AES encryption requires Export Permit			

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Miniature 840 to 845 MHz Wireless Modem

For the ultimate solution in design flexibility and cost/size sensitive applications, consider the Pico Series P840 radio platform. Offering robust and secure operation in the 840-845 MHz Band, the P840 provides an economical solution with the design flexibility, features, and performance never seen before!

840 - 845 MHz

1W Frequency Hopping

2W Fixed Channel

Extended Temperature

Dual Serial Ports

Excellent Sensitivity

Weights only 5 grams!



1.3" X 1.05" X 0.13"

Features

- Supports up to 345 kbps
- Software Selectable Frequency Hopping or Fixed Channel Operation
- Quad Filter Stage provides Extreme Noise & Interference Rejection
- Point-to-Point, Point-to-Multipoint, Store & Forward Repeater
- Industrial Temperature (-55°C to +85°C)
- Maximum allowable transit power (Adjustable)
- Low Power consumption in Sleep and Sniff modes (Future)
- 32 bits of CRC, selectable Forward Error Correction with retransmission
- Separate diagnostics port—transparent remote diagnosis and online network control
- Extremely Small Footprint (26.5 x 33 x 3.5mm | 1.3 x 1.05 x 0.15")

Enclosed Option



Pico Series

Specifications

Spreading Method / Modulation Scheme	Frequency Hopping/Fixed Frequency, GMSK, 2GFSK, 4GFSK, QPSK	Frequency 840 to 845 MHz (Frequency Hopping)			
Forward Error Correction	Hamming, BCH, Golay, Reed-Solomon, Viterbi	Rate (kbps)	Power (W)	Sensitivity (dBm)	Bandwidth (kHz)
Error Detection	32 bits of CRC, ARQ	19.2	1	-116	25
Encryption	Optional (see -AES option)	56	1	-113	60
Range	Up to 60 miles (100 km)	115.2	1	-109	150
Serial Interface	3.3V CMOS RS232/485 (Selectable)	172.8	1	-108	180
Serial Baud Rate	300 bps to 230 kbps	230.4	1	-106	230
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer	276.4	1	-105	280
Signals Interface	RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSmode, 4 Digital Inputs/Outputs, 1 Analog Input, 1 Analog Output	345	1	-103	400
Remote Diagnostics	Battery Voltage, Temperature, RSSI, Packet Statistics	Frequency 840 to 845 MHz (Single Channel)			
Rejection	Adjacent Channel @ 840 MHz: 57 dB Alternate Channel @ 840 MHz: 65 dB	19.2	2	-116	25
Core Voltage	OEM Enclosed 3.3VDC 9-30 VDC	56	2	-113	60
Power Consumption (3.3V)	Sleep: < 1mA (Future) Idle: 20mA Rx: 45mA to 98mA Tx Peak: 2A	115.2	2	-109	150
Connectors:	OEM Enclosed Antenna: UFL Data: 80 Pin SMT Antenna: RP-SMA Female Bulkhead Data: DB9-F	172.8	2	-108	180
Environmental	-55°C - +85°C 5-95% humidity, non-condensing	230.4	2	-106	230
Weight	OEM Enclosed Approx. 5 grams Approx. 120 grams	276.4	2	-105	280
Dimensions	OEM Enclosed Approx. 1.05" x 1.3" x .13" (26.5mm x 33mm x 3.5mm) Approx. 1.80" x 2.60" x 1.0" (46mm x 66mm x 25mm)	345	2	-103	400
Approvals	RoHS Compliant	Order Options			
		P840	840 - 845 MHz Pico OEM Wireless Modem		
		-AES	128-bit AES Encryption. Required Export Permit.		
		-ENC	Enclosed Model		

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Miniature 1W 865 - 867 MHz Wireless Modem

For the ultimate solution in design flexibility and cost/size sensitive applications, consider the Pico Series P866 radio platform. Offering robust frequency hopping technology in the 865 - 867 MHz, the P866 provides an economical solution with the design flexibility, features, and performance never seen before!

865 - 867 MHz

Up to 345 kbps

Up to 1 Watt

Extended Temperature

Dual Serial Ports

Excellent Sensitivity



Weighs only 5 grams!

1.3" X 1.05" X 0.13"

P866 Features

- Supports up 9.6 - 345 kbps
- Quad Filter Stage provides Extreme Noise & Interference Rejection
- Point-to-Point, Point-to-Multipoint, Store & Forward Repeater
- Industrial Temperature (-55°C to +85°C)
- Maximum allowable transit power (Adjustable)
- Low Power consumption in Sleep and Sniff modes
- 32 bits of CRC, selectable Forward Error Correction with retransmission
- Separate diagnostics port—transparent remote diagnosis and online network control
- Extremely Small Footprint (26.5 x 33 x 3.5mm | 1.3 x 1.05 x 0.15")

Enclosed Option



Pico Series

Specifications

Frequency	865 - 867 MHz Frequency Hopping	Frequency 865 to 867 MHz (Frequency Hopping)					
Forward Error Correction	Hamming, BCH, Golay, Reed-Solomon, Viterbi	Rate (kbps)	Power	Sensitivity (dBm)	Bandwidth (kHz)		
Error Detection	32 bits of CRC, ARQ	9.6	1W	-120	12.5		
Encryption	Optional (see –AES option)	19.2	1W	-116	25		
Range	60 miles (100 km)	56	1W	-113	60		
Serial Interface	3.3V CMOS RS232/485 (Selectable)	115.2	1W	-109	150		
Serial Baud Rate	300 bps to 230 kbps	172.8	1W	-108	180		
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer	230.4	1W	-106	230		
Signals Interface	RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSmode, 4 Digital Inputs/Outputs, 1 Analog Input, 1 Analog Output	276.4	1W	-105	230		
Remote Diagnostics	Battery Voltage, Temperature, RSSI, Packet Statistics	345	1W	-103	400		
Core Voltage	OEM Enclosed 3.3VDC 9-30 VDC	<h2 style="text-align: center;">Order Options</h2> <table border="1"> <tr> <td>Model</td> <td>P866</td> </tr> </table>				Model	P866
Model	P866						
Power Consumption (3.3V)	Sleep: < 1mA Idle: 20mA Rx: 45mA to 98mA Tx Peak: 2A						
Connectors:	OEM Enclosed Antenna: UFL Data: 80 Pin SMT Antenna: RP-SMA Female Bulkhead Data: DB9-F						
Environmental	-55°C - +85°C 5-95% humidity, non-condensing						
Weight	OEM Enclosed Approx. 5 grams Approx. 120 grams						
Dimensions	OEM Enclosed Approx. 1.05" x 1.3" x .13" (26.5mm x 33mm x 3.5mm) Approx. 1.80" x 2.60" x 1.0" (46mm x 66mm x 25mm)						
Approvals	Pending						

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Miniature 869 MHz Wireless Modem

For the ultimate solution in design flexibility and cost/size sensitive applications, consider the Pico Series P869 radio platform. Offering robust and secure operation in the 869 MHz Band, the P869 provides an economical solution with the design flexibility, features, and performance never seen before!

869 MHz

25KHz x 10 Channels

250kHz Single Channel

Extended Temperature

Dual Serial Ports

Excellent Sensitivity

Weighs only 5 grams!



1.3" X 1.05" X 0.13"

Features

- Supports up to 172.8 kbps
- Software Selectable 10 Channel (25kHz) or Single Channel Operation
- Quad Filter Stage provides Extreme Noise & Interference Rejection
- Point-to-Point, Point-to-Multipoint, Store & Forward Repeater
- Industrial Temperature (-55°C to +85°C)
- Maximum allowable transit power (Adjustable)
- Low Power consumption in Sleep and Sniff modes (Future)
- 32 bits of CRC, selectable Forward Error Correction with retransmission
- Separate diagnostics port—transparent remote diagnosis and online network control
- Extremely Small Footprint (26.5 x 33 x 3.5mm | 1.3 x 1.05 x 0.15")

Enclosed Option



Pico Series

Specifications

Spreading Method / Modulation Scheme	GMSK, 2GFSK, 4GFSK, QPSK	Frequency 869.5 to 869.75 MHz				
Channel Bandwidth	Selectable: (10) - 25kHz Channels or (1) - 250 kHz Channel	Rate (kbps)	Power (mW)	Sensitivity (dBm)	Bandwidth (kHz)	Regulatory
Forward Error Correction	Hamming, BCH, Golay, Reed-Solomon, Viterbi	19.2	500	-116	25	CE Pending
Error Detection	32 bits of CRC, ARQ	56	500	-113	250	CE Pending
Encryption	Optional (see -AES option)	115.2	500	-109	250	CE Pending
Range	Up to 60 miles (100 km)	172.8	500	-108	250	CE Pending
Serial Interface	3.3V CMOS RS232/485 (Selectable)	Order Options				
Serial Baud Rate	300 bps to 230 kbps	P869	869 MHz Pico OEM Wireless Modem			
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer	-AES	128-bit AES Encryption. Required Export Permit.			
Signals Interface	RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSMODE, 4 Digital Inputs/Outputs, 1 Analog Input, 1 Analog Output	-ENC	Enclosed Model			
Remote Diagnostics	Battery Voltage, Temperature, RSSI, Packet Statistics					
Rejection	Adjacent Channel @ 869 MHz: 50 dB Alternate Channel @ 869 MHz: 60 dB					
Core Voltage	OEM Enclosed 3.3VDC 9-30 VDC					
Power Consumption (3.3V)	Sleep: < 1mA (Future) Idle: 20mA Rx: 45mA to 98mA Tx Peak: 2A					
Connectors:	OEM Enclosed Antenna: UFL Data: 80 Pin SMT Antenna: RP-SMA Female Bulkhead Data: DB9-F					
Environmental	-55°C - +85°C 5-95% humidity, non-condensing					
Weight	OEM Enclosed Approx. 5 grams Approx. 120 grams					
Dimensions	OEM Enclosed Approx. 1.05" x 1.3" x .13" (26.5mm x 33mm x 3.5mm) Approx. 1.80" x 2.60" x 1.0" (46mm x 66mm x 25mm)					
Approvals	CE (Pending) RoHS Compliant					

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Miniature Mesh 1W 900 MHz Wireless Modem

For the ultimate solution for cost and size sensitive applications, consider the P900 with its extremely small footprint and design flexibility. The P900 offers a low cost solution with the reliability, features, and performance of our larger modems!

Very Low Cost

Mesh

1 Watt

Extended Temperature

Dual Serial Ports

Excellent Sensitivity

Weighs only 5 grams!



1.3" X 1.05" X 0.13"

The P900 features robust, high speed, low latency, secure data communications. The P900 has full serial and diagnostics data capabilities for legacy devices! The P900 offers excellent noise figure, superior interference rejection, agile frequency synthesis, digital modulation, and matched filter detection.

Features of the P900

- Very Low Cost
- Supports up to 276kbps!
- Quad Filter Stage provides Extreme Noise & Interference Rejection
- True Self Healing Mesh, Auto Routing, Store & Forward
- Industrial Temperature (-55°C to +85°C)
- Maximum allowable transit power (Adjustable, up to 1W)
- Low Power consumption in Sleep and Sniff modes
- 32 bits of CRC, selectable Forward Error Correction with retransmit
- Separate diagnostics port—transparent remote diagnosis and online network control
- Extremely Small Footprint (26.5 x 33 x 3.5mm | 1.3 x 1.05 x 0.15")

Enclosed Option



P900

Specifications

Frequency	902-928 MHz	Power Consumption (3.3V +/- 0.3V @1W)	Sleep	< 1mA
Spreading Method	Frequency Hopping		Idle	3.5mA
Forward Error Detection	Hamming BCH Golay Reed-Solomon	Connectors:	Rx:	45mA to 98mA
Error Detection	32 bits of CRC, ARQ		OEM Antenna Data Enclosed Antenna Data	Tx :
Encryption	Optional (see –AES option)			UFL
Range	40 miles (60 km)	Environmental	80 Pin SMT	
Sensitivity (@10⁻⁴)	-114 dBm @ 57.6 kbps -112 dBm @ 115.2 kbps -109 dBm @ 172.8 kbps -107 dBm @ 230.4 kbps	Weight	RP-SMA Female Bulkhead	
Output Power	100mW - 1W (20-30dBm)	OEM	DB-9F	
Serial Interface	3.3V CMOS RS232/485 (Selectable)	Enclosed		
Serial Baud Rate	Up to 230.4 kbps asynchronous	Environmental		-55°C - +85°C
Link Rate	57.6 to 276 kbps	Weight		
Operating Modes	Mesh, Auto Routing, Store and Forward, Self Healing, Packet Routing Modes	OEM		Approx. 5 grams
Signals Interface	RxD1, TxD1, RTS, CTS DCD, DSR, DTR, RxD2, TxD2, RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSmode, 4 Digital Inputs/Outputs, 1 Analog Input, 1 Analog Output	Enclosed		Approx. 120 grams
Blocking	+/- 1 MHz > 55 dBc +/- 2.5 MHz > 60 dBc +/- 5 MHz > 65 dBc > 930 MHz > 70 dBc < 890 MHz > 70 dBc	Dimensions		
Remote Diagnostics	Battery Voltage, Temperature, RSSI, Packet Statistics	OEM		Approx. 1.05" x 1.3" x .13" (26.5mm x 33mm x 3.5mm)
Core Voltage	OEM: 3.3VDC Nominal (+/- 0.3V) Enclosed: 9-30 VDC	Enclosed		Approx. 1.80" x 2.60" x 1.0" (46mm x 66mm x 25mm)
		Approvals		FCC Part 15.247 IC RSS210 Anatel RoHS Compliant

Order Options

-AES	128-bit AES Encryption (requires permit for export outside of Canada and USA.)
-AES256	256-bit AES Encryption (requires permit for export outside of Canada and USA.)
-ENC	Enclosed Model

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Miniature 2.4 GHz Wireless Modem

For the ultimate solution in design flexibility and cost/size sensitive applications, consider the Pico Series P2400 radio platform. Operating in the 2.4 GHz ISM band, the P2400 provides an international, economical solution with the design flexibility, features, and performance never seen before!

Low Cost

2.4 GHz ISM

1W RF Power

Extended Temperature

Dual Serial Ports

Enhanced Sensitivity

Excellent Rejection

Weights only 5 grams!



1.3" X 1.05" X 0.13"

P2400 Features

- Supports 19.2 kbps to 345 kbps
- Superheterodyne Architecture
- Quad Filter Stage provides Extreme Noise & Interference Rejection
- Rejection > 65 dBc
- Point-to-Point, Point-to-Multipoint, Store & Forward Repeater
- Industrial Temperature (-55°C to +85°C)
- Maximum allowable transit power (Adjustable)
- Low Power consumption in Sleep and Sniff modes (Future)
- 32 bits of CRC, selectable Forward Error Correction with retransmission
- Separate diagnostics port—transparent remote diagnosis and online network control
- Extremely Small Footprint (26.5 x 33 x 3.5mm | 1.3 x 1.05 x 0.15")
- Microhard compatibility with n2420BF

Enclosed Option



Pico Series

Specifications

Frequency		Performance Specifications										
Spreading Method	Frequency Hopping, DTS	Rate (kbps)	Power	Sensitivity (dBm)	Bandwidth (KHz)	Regulatory						
Forward Error Correction	Hamming, BCH, Golay, Reed-Solomon, Viterbi	19.2	1W	-116	25	FCC / IC						
Error Detection	32 bits of CRC, ARQ	56	1W	-113	60	FCC / IC						
Encryption	Optional (see -AES option)	115.2	1W	-109	150	FCC / IC						
Range	30 miles (50 km)	172.8	1W	-108	180	FCC / IC						
Serial Interface	3.3V CMOS RS232/485 (Selectable)	230.4	1W	-106	230	FCC / IC						
Serial Baud Rate	300 bps to 230 kbps	276.4	1W	-105	280	FCC / IC						
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer	345	1W	-103	400	FCC / IC						
Signals Interface	RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSmode, 4 Digital Inputs/Outputs, 1 Analog Input, 1 Analog Output	19.2	100mW	-115	25	FCC/IC/CE						
Remote Diagnostics	Battery Voltage, Temperature, RSSI, Packet Statistics	56	100mW	-110	60	FCC/IC/CE						
Rejection	Adjacent Channel @ 2400 MHz: 57 dB Alternate Channel @ 2400 MHz: 65 dB	115.2	100mW	-109	150	FCC/IC/CE						
Core Voltage	OEM 3.3VDC is required for 1W Enclosed 3.6VDC is required for 2W 9-30 VDC	172.8	100mW	-108	180	FCC/IC/CE						
Power Consumption (3.3V)	Sleep: < 1mA (Future) Idle: 20mA Rx: 45mA to 98mA Tx Peak: 2A	230.4	100mW	-106	230	FCC/IC/CE						
Connectors:	OEM Antenna: UFL Data: 80 Pin SMT Enclosed Antenna: RP-SMA Female Bulkhead Data: DB9-F	276.4	100mW	-105	280	FCC/IC/CE						
Environmental	-55°C - +85°C 5-95% humidity, non-condensing	345	100mW	-103	400	FCC/IC/CE						
Weight	OEM Approx. 5 grams Enclosed Approx. 120 grams	<h2>Order Options</h2> <table border="1"> <tr> <td>P2400</td> <td>Base Model .</td> </tr> <tr> <td>-AES</td> <td>128-bit AES Encryption.**</td> </tr> <tr> <td>-ENC</td> <td>Enclosed Model</td> </tr> </table> <p>**AES encryption requires an Export Permit</p>					P2400	Base Model .	-AES	128-bit AES Encryption.**	-ENC	Enclosed Model
P2400	Base Model .											
-AES	128-bit AES Encryption.**											
-ENC	Enclosed Model											
Dimensions	OEM Approx. 1.05" x 1.3" x .13" (26.5mm x 33mm x 3.5mm) Enclosed Approx. 1.80" x 2.60" x 1.0" (46mm x 66mm x 25mm)											
Approvals	FCC Industry Canada CE Japan MIC RoHS Compliant											

Contact Information

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