RADWIN Alpha Model

Point-to-Point Radio - Data Sheet (RW2000/ODU/Alpha/F58/FCC/INT/500M)



RW-2050-6HC5

Product Description

RW-2050-6HC5 is a carrier-class radio that belongs to the RADWIN 2000 Alpha Series and supports 4.9 to 5.8 GHz frequency range.

The Radio complies with FCC/IC & FCC bands with a factory default of 5.8 GHz FCC/IC.

RW-2050-6HC5 delivers up to 500 Mbps throughput.

The unit includes an integrated antenna.

Product Highlights

- Up to 500 Mbps net aggregated throughput
- Telco-grade, extremely robust in harsh conditions
- Built-in GPS for intra and inter site TDD synchronization
- Configurable asymmetric throughput
- Advanced OFDM & MIMO technologies for operation in nLOS/NLOS and dense radio environments
- Integrated 22dBi antenna
- IP-67
- Can operate as SU PRO
- Support AES 256 encryption over the air (from release 5.1.30)



Product Specifications:

Activation Configuration	Configuration							
Decided Care Decided Decided	Configuration	O televolte 9 - 9h ve Stovenske de vere						
Note								
Max Capacity		Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT						
Range		F00 Mh == = = + =						
Channel Bandwidth	. ,	· · · · · · · · · · · · · · · · · · ·	1 00 0 0 1 11					
Modulation & Modulation & Coding Automatic Channel Selection Supported (FCC/IC, FCC) Deersity	-			/f	I) D' Cl	DM /20 /40 /00 hall)		
Adaptive Modulation & Coding Supported upon power up						nannel BW selection (20/40/80 MHz)		
Automatic Channel Selection Supported group nower up		,	BPSK/QPSK/16QA	IVI/64QAIVI/256Q	AIVI)			
Descriptor Supported Sup								
Deversity Supported		 	<u> </u>					
Supported Supp			./IC, FCC)					
Max Tx Power	,	+						
Duplex Fechnology TOP								
Error Carcetion FEC k = 1/2, 2/3, 3/4, 5/6		· ·	in					
ASS 256 Uplink / Downlink Allocation								
Uplink, Downlink Allocation Configurable: Symmetric or Asymmetric QoS Packet classification to 4 priority queues according to 802.1P or DiffserV VLAN Support S02.10, Ginol, 4094 VLANS Supported via built-in GPS receiver Do Intra Site Synchronization Supported via built-in GPS receiver DOB Management IPv4/IPv6 dual-stack; SNMPv1, SNMPv3; HTTP/HTTPS using web browser Qption 82 Supported								
Packet classification to 4 priority queues according to 802.1P or Diffserv								
VAAN Support	1 '							
TDD Inter Site Synchronization Supported via built-in GPS receiver	•							
TDD Inter Site Synchronization Pv4/IPv6 dual-stack; SNMPv1, SNMPv3; HTTP/HTTPS using web browser Pv6/IPv6 dual-stack; SNMPv3; HTTP/HTTP/HTTP/HTTP/HTTP/HTTP/HTTP/HTTP								
ODU Management IPA4/IPV6 dual-stack; SMMPv1, SMMPv3; HTTP/HTTPS using web browser								
Option 82 Supported RADIUS Authorization Supported RADIUS User authentication Supported Syslog Supp	,							
RADIUS User authentication Supported								
RADIUS User authentication Supported Supported Supported Supported Supported Pet voltage must b ≥ > 55v)								
Syslog Supported PoEr voltage must be >= 55v)								
Power Pow		11						
Supported Bands								
Band CBW 10MHz [RHz] [GHz] [GHz	7 00 1	**Supported (P	oE voltage must l	oe >= 55v)				
GHz GHz CGHz CGHz CGHz CGHz CGHz CGHz 4.9 GHz FCC/IC	• • • • • • • • • • • • • • • • • • • •							
5.1 GHz FCC 5.170-5.250 5.170-5.250 5.170-5.250 5.170-5.250 FCC 47CFR Part 15.407 5.1 GHz FCC 5.170-5.845 5.170-5.845 5.170-5.845 5.170-5.845 5.170-5.845 5.170-5.845 5.170-5.845 5.170-5.845 5.170-5.845 5.170-5.845 5.170-5.845 5.250-5.340 5.250-5.340 5.250-5.340 5.250-5.340 FCC 47CFR Part 15.407 5.4 GHz FCC/IC (default) 5.730-5.845 5.730-5.845 5.730-5.845 5.730-5.845 FCC 47CFR Part 15.407 Mechanical ODU Dimensions 32.5(w) x 32.5(h) x 6.7(d) cm ODU Weight 2 kg /4.41 lbs Mounting Kit Included Power Feeding Power provided over ODU-IDU cable Power Consumption <13W AC POE RW-9921-400x De Poe RW-9921-400x De Poe RW-9921-200s Package Content FLOY Colspan="4">FLOY Colspan="4	Band	1 -				Radio Compliance		
5.1 GHz FCC 5.170-5.845 5.170-5.845 5.170-5.845 FCC 47CFR Part 15.407 5.2 GHz FCC/IC - 5.255-5.340 5.255-5.340 5.255-5.340 FCC 47CFR Part 15.407 5.4 GHz FCC/IC (default) 5.730-5.845 5.730-5.845 5.730-5.845 FCC 47CFR Part 15.407 5.8 GHz FCC/IC (default) 5.730-5.845 5.730-5.845 5.730-5.845 FCC 47CFR Part 15.407; ISED RSS-247 Mechanical ODU Dimensions 32.5(w) x 32.5(h) x 6.7(d) cm FCC 47CFR Part 15.407; ISED RSS-247 Mounting Kit Included Power Power Feeding Power provided over ODU-IDU cable Power Goding Power provided over ODU-IDU cable Power Goding RW-9921-400x Network Device RC POE RW-9921-400x Package Content Package Content Environmental Operating Temperatures -35°C to 60°C / -31°F to 140°F Humidity 100% condensing, IP67 (totally protected against dark and against imersion in water up to	4.9 GHz FCC/IC	4.940-4.990	4.940-4.990	4.940-4.990	-	FCC 47CFR Part 90 Subpart Y; ISED RSS-111		
5.2 GHz FCC/IC - 5.255-5.340 5.255-5.340 5.250-5.340 FCC 47CFR Part 15.407 5.4 GHz FCC - 5.480-5.715 5.480-5.715 5.485-5.715 FCC 47CFR Part 15.407 Mechanical ODU Dimensions 32.5(w) x 32.5(h) x 6.7(d) cm -	5.1 GHz FCC	5.170-5.250	5.170-5.250	5.170-5.250	5.170-5.250	FCC 47CFR Part 15.407		
S.4 GHz FCC -	5.1 GHz FCC	5.170-5.845	5.170-5.845	5.170-5.845	5.170-5.845	FCC 47CFR Part 15.407		
S. 6 Hz FCC/IC (default)	5.2 GHz FCC/IC	-	5.255-5.340	5.255-5.340	5.250-5.340	FCC 47CFR Part 15.407		
Mechanical ODU Dimensions 32.5(w) x 32.5(h) x 6.7(d) cm ODU Weight 2 kg / 4.41 lbs Mounting Kit Included Power Feeding Power Feeding Power provided over ODU-IDU cable Power Consumption <13W	5.4 GHz FCC	-	5.480-5.715	5.480-5.715	5.485-5.715	FCC 47CFR Part 15.407		
ODU Dimensions 32.5(w) x 32.5(h) x 6.7(d) cm ODU Weight 2 kg / 4.41 lbs Mounting Kit Included Power Power Feeding Power Feeding Power provided over ODU-IDU cable Power Consumption <13W	5.8 GHz FCC/IC (default)	5.730-5.845	5.730-5.845	5.730-5.845	5.730-5.845	FCC 47CFR Part 15.407; ISED RSS-247		
ODU Weight2 kg / 4.41 lbsMounting KitIncludedPowerPower FeedingPower provided over ODU-IDU cablePower Consumption<13W	Mechanical							
Mounting KitIncludedPowerPower FeedingPower provided over ODU-IDU cablePower Consumption<13 WNetwork DeviceRW-9921-400xAC POERW-9921-2069Package ContentRadio unit with integrated antenna, pole/wall mounting kit, IP67 gland for POE portEnvironmental-35°C to 60°C / -31°F to 140°FUmidity100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m)MTBF4,075,000 hours (Telcordia SR332 @25°C)Wind Resistance operational8M/hSafetySafetyEU/IntlEN/IEC 62368-1, EN/IEC 60950-22USACTUVus: UL 62368-1:2014, UL 60950-22EMCFCCFCC 47 CFR, Part15, Subpart B, Class BETSIETSI EN 301 489-1, ETSI EN 301 489-4, ETSI 301 489-17CanadaICES-003, CISPR 32, Class B	ODU Dimensions	32.5(w) x 32.5(h) x 6.7(d) cm						
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Power Consumption<13 W	_	2 kg / 4.41 lbs						
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AC POE RW-9921-400x DC POE RW-9921-2069 Package Content Package Radio unit with integrated antenna, pole/wall mounting kit, IP67 gland for POE port Environmental Operating Temperatures -35°C to 60°C / -31°F to 140°F Humidity 100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m) MTBF 4,075,000 hours (Telcordia SR332 @25°C) Wind Resistance operational 180Km/h Safety EU/Intl EN/IEC 62368-1, EN/IEC 60950-22 USA CTUVus: UL 62368-1:2014, UL 60950-22 EMC EMC FCC FCC 47 CFR, Part15, Subpart B, Class B ETSI EN 301 489-1, ETSI EN 301 489-4, ETSI 301 489-17 Canada ICES-003, CISPR 32, Class B	Mounting Kit Power	2 kg / 4.41 lbs Included	l over ODU-IDU c	able				
DC POERW-991-2069Package ContentPackageRadio unit with integrated antenna, pole/wall mounting kit, IP67 gland for POE portEnvironmentalOperating Temperatures-35°C to 60°C / -31°F to 140°FHumidity100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m)MTBF4,075,000 hours (Telcordia SR332 @25°C)Wind Resistance operational180Km/hSafetyEU/IntlEN/IEC 62368-1, EN/IEC 60950-22USAcTUVus: UL 62368-1:2014, UL 60950-22EMCFCCFCC 47 CFR, Part15, Subpart B, Class BETSIETSI EN 301 489-1, ETSI EN 301 489-4, ETSI 301 489-17CanadaICES-003, CISPR 32, Class B	Mounting Kit Power Power Feeding	2 kg / 4.41 lbs Included	d over ODU-IDU c	able				
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Environmental Operating Temperatures	Mounting Kit Power Power Feeding Power Consumption Network Device AC POE	2 kg / 4.41 lbs Included Power provided <13W RW-9921-400x	d over ODU-IDU c	able				
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Safety EU/Intl EN/IEC 62368-1, EN/IEC 60950-22 USA cTUVus: UL 62368-1:2014, UL 60950-22 EMC FCC FCC FCC 47 CFR, Part15, Subpart B, Class B ETSI ETSI EN 301 489-1, ETSI EN 301 489-4, ETSI 301 489-17 Canada ICES-003, CISPR 32, Class B	Mounting Kit Power Power Feeding Power Consumption Network Device AC POE DC POE Package Content Package Environmental Operating Temperatures	2 kg / 4.41 lbs Included Power provided <13W RW-9921-400x RW-9921-2069 Radio unit with -35°C to 60°C /	integrated anten -31°F to 140°F	na, pole/wall moi				
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Canada ICES-003, CISPR 32, Class B	Mounting Kit Power Power Feeding Power Consumption Network Device AC POE DC POE Package Content Package Environmental Operating Temperatures Humidity MTBF Wind Resistance operational Safety EU/Intl USA	2 kg / 4.41 lbs Included Power provided <13W RW-9921-400x RW-9921-2069 Radio unit with -35°C to 60°C / 100% condensi 4,075,000 hour 180Km/h	integrated anten -31°F to 140°F ng, IP67 (totally p s (Telcordia SR33	na, pole/wall moderotected against of 2 @25°C)				
Canada ICES-003, CISPR 32, Class B	Mounting Kit Power Power Feeding Power Consumption Network Device AC POE DC POE Package Content Package Environmental Operating Temperatures Humidity MTBF Wind Resistance operational Safety EU/Intl USA EMC	2 kg / 4.41 lbs Included Power provided <13W RW-9921-400x RW-9921-2069 Radio unit with -35°C to 60°C / 100% condensi 4,075,000 hour 180Km/h EN/IEC 62368-1 cTUVus: UL 623	integrated anten -31°F to 140°F ng, IP67 (totally p s (Telcordia SR33 ., EN/IEC 60950-2 68-1:2014, UL 60	na, pole/wall monorotected against of 2 @25°C) 2 950-22				
AS/NZS CISPR 32, Class B	Mounting Kit Power Power Feeding Power Consumption Network Device AC POE DC POE Package Content Package Environmental Operating Temperatures Humidity MTBF Wind Resistance operational Safety EU/Intl USA EMC FCC	2 kg / 4.41 lbs Included Power provided <13W RW-9921-400x RW-9921-2069 Radio unit with -35°C to 60°C / 100% condensi 4,075,000 hour 180Km/h EN/IEC 62368-1 cTUVus: UL 623	integrated anten -31°F to 140°F ng, IP67 (totally p s (Telcordia SR33 ., EN/IEC 60950-2 68-1:2014, UL 60 t15, Subpart B, C	na, pole/wall mor rotected against of 2 @25°C) 2 950-22 lass B	dust and against i			
	Mounting Kit Power Power Feeding Power Consumption Network Device AC POE DC POE Package Content Package Environmental Operating Temperatures Humidity MTBF Wind Resistance operational Safety EU/Intl USA EMC FCC ETSI	2 kg / 4.41 lbs Included Power provided <13W RW-9921-400x RW-9921-2069 Radio unit with -35°C to 60°C / 100% condensi 4,075,000 hour 180Km/h EN/IEC 62368-1 cTUVus: UL 623	integrated anten -31°F to 140°F ng, IP67 (totally p s (Telcordia SR33 ., EN/IEC 60950-2 .68-1:2014, UL 60 t15, Subpart B, C 9-1, ETSI EN 3014	na, pole/wall mor rotected against of 2 @25°C) 2 950-22 lass B	dust and against i			



Integrated Antenna					
Gain	22 dBi				
Detailed Gain	22.0 +/- 1.0 dBi				
VSWR	2.0:1				
3 dB Azimuth Beamwidth	10 Deg. (Typ)				
3 dB Elevation Beamwidth	Deg. (Typ)				
Polarization	Dual Linear (Vertical and Horizontal)				
Sidelobes Level	-12 dB(typ)				
Cross Polarization	-25dB (typ)				
F/B Ratio	-25 dB				
Port To Port Isolation	30 dB (typ)				
Lightning Protection	DC Grounded				
Antenna Pattern					
Elevation @ 5.8	GHz	Azimuth @ 5.8GHz			
-50 -60 -70 -80 -110 -120 -130 -140 -150 -160 -170 180 17	30 40 50 60 70 80 80 100 110 120 130 140	-50 -50 -50 -60 -70 -70 -80 -150 -150 -150 -160 -170 180 170 160			

Ordering Info

Part Number: RW-2050-6HC5

Description: RADWIN Alpha ODU, with an integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz FCC/IC.

* May be limited by regulation in the specific band being used

Datasheet information can be changed by manufacturer without prior notice

