



### Product Highlights

- Up to 100 Mbps net aggregate throughput
- OFDM technology for operation in nLOS
- Advanced MIMO and Diversity technology
- IP + Native TDM (up to 16 T1s)
- Long range - up to 75 miles
- Enhanced QoS & networking features
- Asymmetric capacity-fixed or dynamic channel allocation
- Multiple Point-to-Point configuration
- Extremely fast and easy to install

## RADWIN 2000 3.65 GHz Solution

### High Capacity Carrier Grade Point-to-Point Solution

#### High Capacity Point-to-Point Solution

RADWIN 2000 C-Series 3.65 GHz solution is FCC certified point-to-point for the 3.65 GHz non-exclusive license band.

The 3.65 GHz solution provides up to 100 Mbps net aggregate throughput and a flexible combination of native TDM (up to 16 T1s) and Ethernet, enabling operators to cost-effectively support converged IP + TDM networks. The solution operates in symmetric and in adaptive asymmetric modes.

Utilizing OFDM and MIMO, the RADWIN 2000 3.65 GHz solution enables deployment in nLOS (near line of sight) conditions. The solution incorporates advanced technologies that ensure high quality connectivity in adverse spectrum conditions, making it the perfect choice for transmitting broadband services over the 3.65 GHz non-exclusive license band.

#### Target Markets & Applications

##### WISPs – Delivering Dedicated Broadband Access

RADWIN 2000 C-Series 3.65GHz solution allows WISPs to provide broadband access to corporate clients and meet guaranteed Service Level Agreements (SLAs). WISPs can backhaul Wi-Fi hot zones and last mile networks as well as provide broadband to underserved and remote areas.

##### Private Networks

RADWIN 2000 C-Series 3.65 GHz solution allows private networks such as utility companies, municipalities and government entities to build high-capacity broadband networks.

The redundancy capabilities of this solution make it the optimal choice for mission critical and high-end Point-to-Point applications.

<b>Configuration</b>	
<b>Architecture</b>	ODU: Outdoor Unit with Integrated Antenna (21dbi) or Connectorized Unit for External Antenna IDU: Indoor Unit or PoE device
<b>IDU to ODU Interface</b>	Outdoor CAT-5e cable; Maximum cable length: 100m
<b>Maximum Throughput</b>	100 Mbps net aggregate throughput and up to 16 T1s
<b>Radio</b>	
<b>Radio Regulations</b>	3.650 - 3.675 GHz FCC 47CFR, Part 90 – Restricted Mode
<b>Range</b>	Up to 75 miles
<b>Channel Bandwidth</b>	5, 10, 20 MHz
<b>Modem Operations</b>	Single chain or 2X2 Diversity or 2X2 MIMO
<b>Modulation</b>	Adaptive modulation and coding (BPSK/QPSK/16QAM/64QAM)
<b>Max Tx Power</b>	25 dBm
<b>Channel Minimum Step</b>	1 MHz under 3.650-3.675 FCC/IC Band – Restricted Mode
<b>Duplex Technology</b>	TDD
<b>Error Correction</b>	FEC k = 1/2, 2/3, 3/4, 5/6
<b>Encryption</b>	AES 128
<b>TDD Synchronization</b>	Inter site and Intra site synchronization ( up to 16 collocated links )
<b>Ethernet</b>	
<b>Number of Ports</b>	2 in IDU-C and IDU-E; 1 in PoE device 10/100BaseT with Auto-Negotiation (IEEE 802.3u) Framing/Coding IEEE 802.3
<b>QoS</b>	4 level queues based on ToS, 802.1P
<b>VLAN</b>	802.1Q, 802.1P and QinQ Tagging (supported in IDU-C and IDU-E RW-71XX)
<b>Link Symmetry</b>	Adaptive or Fixed Asymmetric
<b>Maximum Information Rate</b>	Configurable in steps of 1Kbps
<b>Latency</b>	Latency 3 msec (typical)
<b>Service Protection</b>	Built in support: 1+1 and Ring topology
<b>TDM</b>	
<b>Number of Ports</b>	Up to 16 T1s
<b>Timing</b>	Independent timing per port, Tx and Rx
<b>Latency</b>	Configurable: 5-20 msec (default: 8 msec)
<b>Service Protection</b>	Monitored Hot Standby (MHS) 1+1 in IDU-C
<b>Mechanical</b>	
<b>Dimensions and Weight</b>	ODU with Integrated Antenna: 14.6(w) x 14.6(h) x 4.3(d) inch; 7 lbs ODU Connectorized: 7.7(w) x 10.6(h) x 3.1(d) inch; 3.6 lbs
<b>Power</b>	
<b>Power Consumption</b>	<35W (IDU + ODU), <25W (ODU+PoE device)
<b>Environmental</b>	
<b>Operating Temperatures</b>	ODU: -31°F to 140°F IDU: 32°F to 122°F
<b>Humidity</b>	ODU: 100% condensing, IP67 (totally protected against dust and against immersion up to 1m) IDU-C: 90% non-condensing
<b>Safety</b>	
<b>FCC/IC (cTUVus)</b>	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22
<b>EMC</b>	
<b>FCC</b>	CFR47 Class B, Part15, Subpart B



## Corporate Headquarters

T. +972.3.766.2917  
E. sales@radwin.com

www.radwin.com

The RADWIN name is a registered trademark of RADWIN Ltd. Specifications are subject to change without prior notification. © All rights reserved, January 2010.