An Introduction to RADWIN 2000 Alpha

May, 2018

You won't believe it's wireless

RADWIN 2000 PtP portfolio

Product Series	App.	Max. Aggregate Throughput	Band (GHz)	Regulation					
				FCC	ETSI	WPC	MII	UNI	NCC
D+	IP	750Mbps	4.9- 6.0	●	●		●	●	●
C+		250Mbps	4.9-6.0, 3.3-3.8, 5.7-6.4	●	●		●	●	
Alpha		50, 200, 350 Mbps	4.9-6.0		●	●	●	●	●
C	IP + TDM	200Mbps + 16 E1s/T1s	4.9-5.9, 2.3-2.4, 3.3-3.8 , 5.7-6.4			●	●	●	
A		**100Mbps + 8 E1s/T1s	4.9-5.9			●	●	●	
		50Mbps + 8 E1s/T1s	4.9-5.9			●	●	●	
		25Mbps + 4 E1s/T1s	4.9-5.9			●	●	●	

RADWIN 2000 Alpha

- 4.9-6.0 GHz

- IP traffic only
  - 50Mbps upgradable to 200Mbps
  - 200Mbps
  - 350Mbps

- Multiple antenna configurations
  - Embedded – 16dBi
  - Connectorized, TurboGain -22dBi

- Regulations: WPC, ETSI, MII, UNI, NCC

- IP-66 compliant
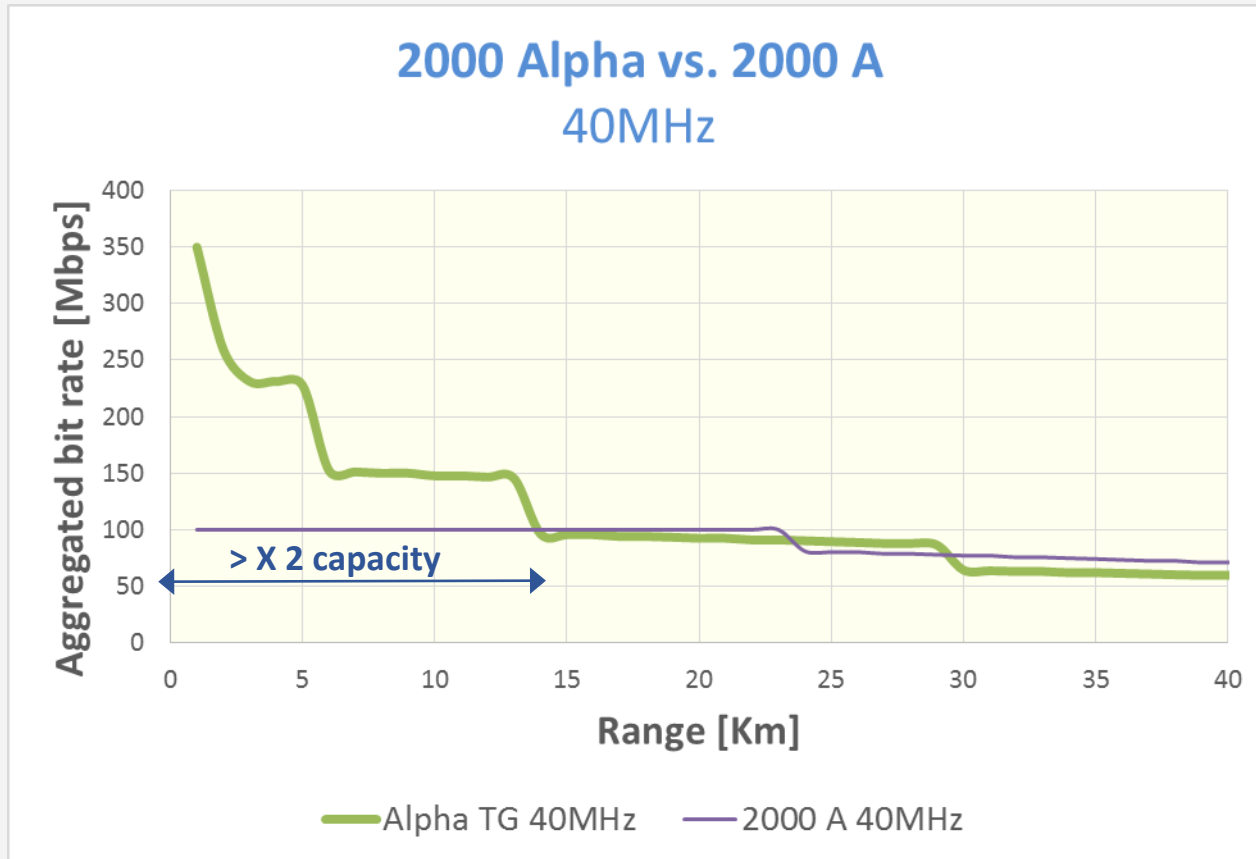

RADWIN 2000   TurboGain

RADWIN 2000 Alpha- Main features:

- Based on RW 2000 field proven air-interface:

  - Up to QAM 256, 80MHz

  - 10/20/40/80MHz

  - Dynamic Channel BW selection: 20 to 80MHz

  - Auto selection of MIMO or diversity mode

  - Full Networking similar to RADWIN 2000 D+

    - (VLAN, QinQ, QoS, F-ARQ)

  - Configurable DL/UL ratio – Up to 88% / 12%

  - Up to 120km

  - Up to 140K PPS

Q3/18 features (SW upgrade):

- TDD sync.

- SNMP v3

- IPv6 for management

- 5MHz

- WINTouch based commission and alignment
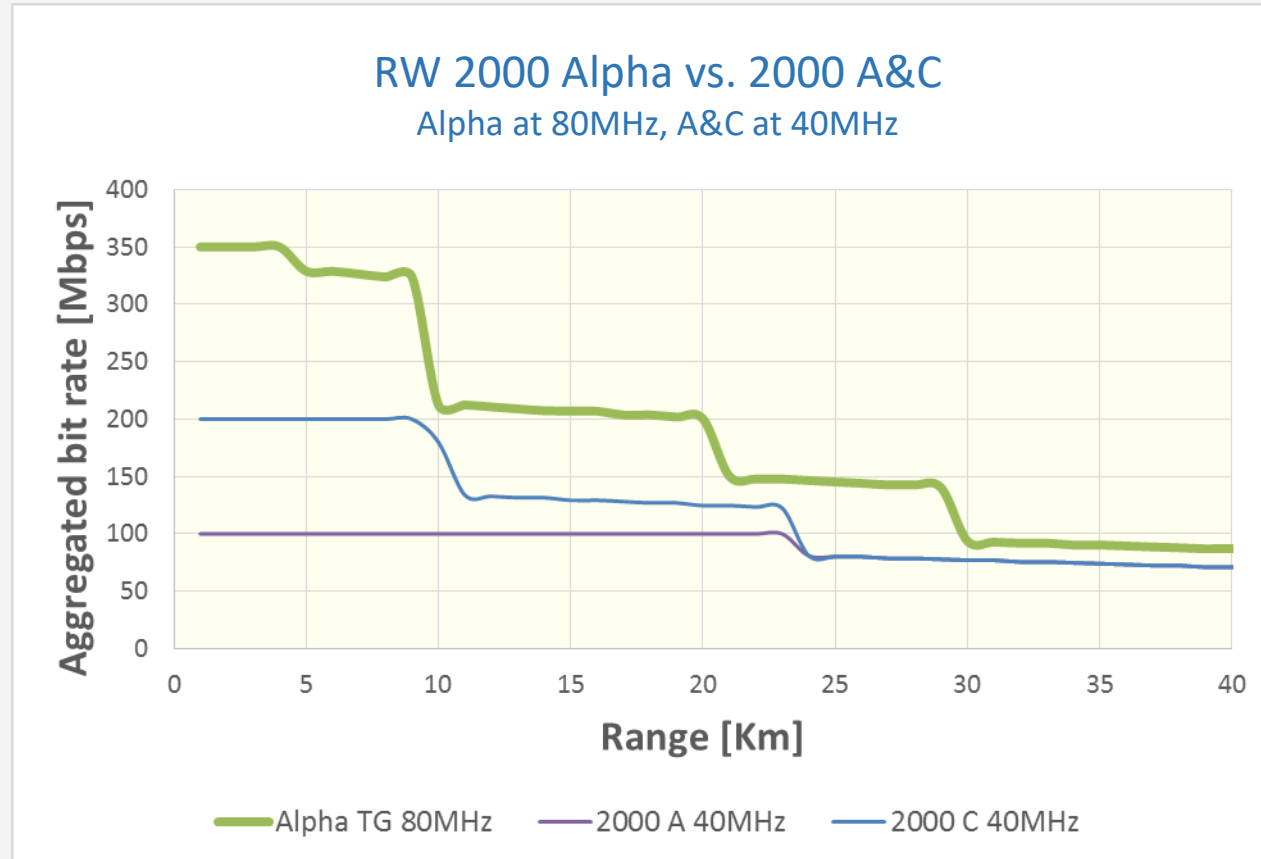
RADWIN 2000 Alpha – Exceeding 2000 A performance

2000 Alpha vs. 2000 A
40MHz

Chart: Aggregated bit rate [Mbps] vs. Range [Km]

> X 2 capacity

Legend: —— Alpha TG 40MHz   —— 2000 A 40MHz

2000 Alpha advantages over 2000 A

- *More than* double *capacity up to 5Km*

- *Higher capacity up to 15Km*

- *Higher PPS (140K vs 100K)*

Alpha delivers more capacity than 2000 A

RADWIN 2000 Alpha – Exceeding 2000 A & C performance at 80MHz

RW 2000 Alpha vs. 2000 A&C
Alpha at 80MHz, A&C at 40MHz

2000 Alpha at 80MHz vs. 2000 A at 40MHz

- *More than triple capacity up to 9Km*

2000 Alpha at 80MHz vs. 2000 C at 40MHz

- *60-70% more capacity up to 27km*

2000 Alpha in 80MHz bandwidth increases the capacity performance gap vs. 2000 A & C

Applications

- Wireless enterprise access

- Video surveillance connectivity

- Leased line replacement

- Building to building connectivity

Unique selling Points

- Pay as you grow capacity

- Highest capacity in short packets (140k PPS)

- Minimize stock inventory - 3 antenna configurations in a single unit

- Reliable link in congested spectrum and tough path conditions

- TDD sync-multiple PtP colocation installations (Q3/18)

- Unparalleled performance at low TCO

Summary

- RADWIN 2000 Alpha is a carrier grade and powerful PtP, offered at a low price point

- RADWIN 2000 Alpha delivers better or similar capacity performance when compared to 2000 A & C in typical IP PtP applications. Alpha can be used as a cost effective alternative

RADWIN 2000 Alpha - package content

Alpha

Metal bands

Cable tie

Mounting kit

Allen Key